je Kining Journal,

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

[The MINING JOURNAL is Registered at the General Post Office as a Newspaper, and for Transmission Abroad.]

No. 2155.-Vol. XLVI.

LONDON, SATURDAY, DECEMBER 9, 1876.

SUPPLEMENT. | SPRICE SUPPLEMENT. | SIXPENCE | PER ANNUM, BY POST, £1 45.

MR. JAMES H. CROFTS. STOCK AND SHARE BROKER, AND MINING SHARE DEALER, No. 1, FINCH LANE, CORNHILL, LONDON, E.C. ESTABLISHED 1842.

Business transacted in all descriptions of Mining Stocks and Shares (British and Foreign), Consols, Banks, Bonds (Foreign and Colonial), Railways, Miscellaneous, Insurance, Assurance, Telegraph, Shipping, Canal, Gas, Water, and Dock Shares

Jacous, Insurance, Assurance, Telegraph, Shipping, Vanni, Vas, Hasel, Dock Shares.

Business negociated in Stocks and Shares not having a general marketvalue.

Business in Colliery and Iaon Shares, and in the principal WAGON and

MANUFACTURING COMPANIES of the NORTH of ENGLAND and SCOTLAND.

BUSINESS in all the principal COTTON SPINNING Shares.

Mr. J. H. CROFTS, having now established Corresponding Agencies in all the

OHIEF Towns of the United Kingdom, is prepared to deal in the various LOCAL

Stocks and Shares at close market prices.

Accounts opened for the Fortnightly Settlement.

Monthly and Daily Price Lists issued.

Bankers: City Bank, London; South Cornwall Bank, St. Austell.

Bankers : City De	ink, Dondon, South Coll
SPECIAL DEALINGS in	the following, or part :-
0 Alltami, £5.	15 Flagstaff, 19s. 6d.
5 Aberdaunant, 13s.	40 Frontino, £156.
0 Assheton, £11/6.	10 Glyn, £214.
Bampfylde, 13s.	10 Great Laxey, £2014.

20 Bampfylde, 13s, 10 Belstone. 10 Bilson, £7¾. 20 Colorado, 20s, 20 Cathedral, 25s, 1 Cara Brea, £41. 15 Cedar Creek, 12s, 10 Cardiff & Swansea, 35s, 50 Chontales, 8s.

10 Cardiff & Swainsea, 35s 9 Chontales, 8s. 5 Dolcoath, &40. 9 Derwent (offer wntd.) 20 Devon Consols, &4¼. 30 Don Pedro, 6s. 15 E. Chiverton, 35s. 20 East Van, £7½. 20 East Cardon, 23s. 9d. 15 Exchequer, £2. 20 Eberhardt, £8¼. 2 Est Pool, £12¼.

A QUARIUM, HOTEL, AND MISCELLANEOUS SHARES.—
special Business in Brighton Aquarium, Royal Westminster Aqua
riam, Langham Hotel, Inns of Court Hotel, Milner's Safe, Milford Docks, Newoastle Chemical, Lawes Chemical.

JAMES H. CROFTS, 1, FINCH LANE, LONDON.

COLLIERIES.—BUSINESS in all the PRINCIPAL SHARES and DEBENTURES. and DEBENTURES.

JAMES H. CROFTS, 1, FINCH LANE, LONDON.

COTTON SPINNING SHARES.—These steady and remunerative

COTTON SPINNING SHARES.—These steady and remunerative Securities (comparatively little known on the London Market, but largely lavested in in the manufacturing districts) can be bought at the present time at unusually favourable prices to pay good divitends on the capital invested. The following Shares (Oldham Mills) are amongst the safest and best of their class:—Name of Mill. of Share. Paid up. per cent. per annum. Quotations. Central Spinning. £ 5 ... £2 10 0 ... 30, 26, 20, 10 ... £ 34, £ 4 Greenacres. 5 ... £ 4 0 0 ... 30, 30, 20, 5 ... 5, 5, 5, 5, 6 Green Lane. 50 ... Fully paid. 30, 25, 30, 25 ... 80, 85 Royton. 5 5 ... 2 0 0 ... 35, 30, 20, 10 ... 24, 34, 8 haw 5 ... 2 10 0 ... 124, 20, 16 ... 24, 34, 8 haw 5 ... 2 10 0 ... 124, 20, 16 ... 24, 34, 34, 4 Twist ... 20 ... Fully paid. 6, 32, 26, 13 ... 264, 284, Windson 5 ... 2 10 0 ... 30, 25, 20, 10 ... 34, 34, 34, 34, 34 Twist ... 20 ... Fully paid. 6, 32, 26, 13 ... 264, 284, 34, 34 Twist ... 20 ... Fully paid. 6, 32, 26, 13 ... 264, 284, 34, 34 Twist ... 20 ... Fully paid. 6, 32, 26, 13 ... 264, 284, 34, 34 Twist ... 20 ... Fully paid. 6, 32, 26, 13 ... 264, 284, 34, 34 Twist ... 20 ... Fully paid. 6, 32, 26, 13 ... 264, 284, 34, 34 Twist ... 20 ... Fully paid. 6, 32, 26, 13 ... 264, 284, 34, 34 Twist ... 20 ... Fully paid. 6, 32, 26, 13 ... 264, 284, 34, 34 Twist ... 20 ... Fully paid. 6, 32, 26, 13 ... 264, 284, 34, 34 Twist ... 20 ... Fully paid. 6, 32, 26, 13 ... 264, 284, 34, 34 Twist ... 20 ... Fully paid. 6, 32, 26, 13 ... 264, 284, 34, 34 Twist ... 20 ... Fully paid. 6, 32, 26, 13 ... 264, 284, 34, 34 Twist ... 20 ... Fully paid. 6, 32, 26, 13 ... 264, 284, 34, 34 Twist ... 20 ... Fully paid. 6, 32, 26, 13 ... 264, 284, 34 Twist ... 20 ... Fully paid. 6, 32, 26, 13 ... 264, 284, 34 Twist ... 20 ... Fully paid. 6, 32, 26, 13 ... 264, 284, 34 Twist ... 20 ... Fully paid. 6, 32, 26, 13 ... 264, 284, 34 Twist ... 20 ... Fully paid. 6, 32, 26, 34, 34 Twist ... 20 ... 20 Twist ... 20 T

FOREIGN BONDS—ARGENTINE—EGYPTIAN—RUSSIAN, SPANISH, TURKISH. SPECIAL BUSINESS, and latest information. JAMES H CROFTS, 1, FINCH LANE, LONDON.

RAILWAYS.—SPECIAL BUSINESS. Fortnightly accounts opened on receipt of the usual cover.

JAMES H. CROFTS, 1 FINCH LANE, LONDON.

LEADHILLS (LANARKSHERE). — SPECIAL BUSINESS in these Shares.

JAMES H. CROFTS, 1, FINCH LANE, LONDON.

PANDORA MINE (LEAD).—SPECIAL BUSINESS in JAMES H. CROFTS, 1, FINCH LANE, LONDON.

MR. WILLIAM H. BUMPUS, STOCK AND SHARE BROKER, 44, THREADNEEDLE STREET, LONDON, E.C. [Established 1867.]

SPECIAL BUSINESS, at close prices, in the SHARES of all the principal HOME and FOREIGN MINES.

Mr. Bumpus directs particular attention to MINING INVESTMENTS, and is in a position to give reliable information and advice respecting the same.

FOR SALE, at prices annexed:—

25 Argentine (Gold). 75 G. West Van, 8s. 9d. 100 Aberdaunant, 12s. 9d. 15 Gleuroy, £2½. 15 Gleuroy, £2½. 15 Condes of Chili. 10 Kapanga. 10 Devon Consols. 20 Leadhills, £8%. 100 Malabar, 7s. 9d. 25 East Caradon, 26s. 25 Marke Valley. 25 East Caradon, 26s. 25 Pennerley, £1 6s. 100 Fenstruthal, 10s.

50 Parys Mount , 12s. 5 Roman Gravels, £14\footnote{15}. 10 Richmond, £9\footnote{15}. 40 Rookhope, '5s. 6d. 10 South Condurrow. 10 Tankerville, £8\footnote{15}. 30 Van Consols, 41s. 70 Wheal Grenville, 26s. (call paid.)

IMPORTANT.

To Capitalists, and all who seek SOUND and PROFITABLE INVESTMENTS, the following are particularly recommended, and are worth the SPECIAL ATTENTION of every Investor, viz.:—

ARGENTINE COMPANY (LIMITED).
CONDES COMPANY OF CHILI (LIMITED).
BLUE TENT HYDRAULIC GOLD MINES (LIMITED).

BLUE TENT HYDRAULIC GOLD MINES (LIMITED).

The regularly published Reports from the above are sufficiently remarkable in themselves, and clearly prove the extraordinary value of the Properties. These are NO SPECULATIONS, but SOUND INVESTMENTS of unusual merit, and, as such, they will shortly occupy very prominent positions in the Market The Pareca are certain to have a great rise, and large Dividends may be confidently expected at me airly date. Intending Investors should, therefore, secure an interest some. Full particulars of the Mines, and every information concerning the Several Companies, may be obtained on application to Ms. Bumpus, who has special facilities for dealing in the shares.

WILLIAM HENRY BUMPUS, SWORN BROKER.
Offices: 44, Threadneedle Street, London, E.C.
ess transacted in Stock Exchange Securities and Miscellaneous shares of
scription. Fortnightly accounts opened. References given and required
eccessary. A Stock and Share List forwarded free on application. BANKERS-The NATIONAL PROVINCIAL BANK OF ENGLAND, E.C.

M. JORDAN has, on account of ill-health, RETIRED from the FIRM of HARVEY, JORDAN, AND CO., MINING ENGINEERS, accountants, &c., of 87, MOORGATE STREET, E.C.

MESSRS. A. ENDEAN, FISHER, AND CO., STOCK AND SHARE DEALERS, 5, LOMBARD COURT, LOMBARD STREET, E.C.
Bankers; London and Westminster, Lothbury.

DIVIDEND LEAD MINE INVESTMENTS,
PAYING 8, 10, TO 12 PER CENT. PER ANNUM ON PRESENT PRICES: and

10, 20, 50, TO 75 PER CENT. PER ANNUM ON CAPITAL OF COM-PANIES.

EVERY information respecting HOME and FOREIGN LEAD MINES and SHARES may be obtained of-

MESSRS. PETER WATSON AND CO., STOCK AND SHARE DEALERS. 54, OLD BROAD STREET, LONDON, E.C.

ALFRED E. COOKE,

STOCK AND SHARE DEALER, 76, OLD BROAD STREET, LONDON, E.C. (Established 1853.)

Transacts every description of Business in ENGLISH FUNDS, RAILWAY TOOKS, and MISCELLANEOUS SHARES. SPECIAL ATENTION GIVEN TO MINING ENTERPRISE. TRADING COMPANIES' SHARES (including COTTON SPINNING) dealt in at close prices.

COLLIERY SHARES dealt in on best terms.

COLLIERY SHARES dealt in on best terms.

SHARES in NEGLECTED and DEPRESSED SECURITIES dealt in.

Every description of STOCKS and SHARES, either for INVESTMENT of

SPECULATION, BOUGHT and SOLD at net prices.

M INES—BUYER and SELLER of LLANRWST AND ABERDAUNANT shares at closest market price.

MINES-LEADHILLS and PANDORA SHARES. SPECIAL BUSINESS and EXCLUSIVE INFORMATION.

COPPER MINES—CATHEDRAL MINE, in the rich Gwennap District. Full particulars, and SPECIAL BUSINESS.

COLLIERIES.—CAKEMORE, CHAPEL HOUSE, AND OTHER COLLIERIES DEALT IN AT CLOSEST PRICES.

RAILWAYS, FOREIGN STOCKS, &c. — HOW TO ACT.

Speculative accounts opened on receipt of usual cover. INVESTMENTS—SAFE AND REMUNERATIVE.
Advice and information (based on experience) given.
ALFRED E. COOKE, 76, OLD BROAD STREET, LONDON.

MR. JAMES STOCKER, STOCK AND SHARE BROKER, 2, CROWN COURT, THREADNEEDLE STREET, LONDON, E.C. [Established 1848.]

[Established 1848.]

BUSINESS transacted in all kinds of STOCK EXCHANGE SECURITIES, also in every description of BRITISH and FOREIGN MINING, COLLIERY, MANUFACTURING, and other SHARES.

BPECIAL BUSINESS in the following:—

Leadhills, £84., Glyn, 48., 8d., Cathedral, 26s. 6d.
Hookhope, 17s. 6d.
Ladywell, 31s. 9d.
Penstruthal, 9s. 6d.
Glenroy, 28s. 9d.
North Laxey, 12s.
West Assheton, 21s. 9d.
Parys Mountain, 12s.
Wheal Grenville, 26s. 3d
West Tankerville, 35s.
Combmartin, 9s.
Phosphate Sewage.
Frontino, 31s. 3d. BPECIAL BUSINESS in t Leadhills, £8¾. East Van, £8¾. Great Laxey, £20. Clementina. So. Condurrow, £6 16 3 Grogwinion, £5¼. Van, £38½. Tankerville, £8½. Roman Gravels, £13½. So. Prince Patrick, 15s. Derwent, £3 16s. 34. Chapel House, £3¼. Richmond, £9¼. Phosphate Sewage. Frontino, 31s. 3d. South Aurora, 6s. 9d. I. X. L., 19s. 6d. : Gold Run, 10s. 9d. Cedar Creek, 15s. 9d. Port Phillip, 13s. N. Zealand Kapan., £5. Chapei House, £3½. Richmond, £9½. Eberhardt, £8¾. Javali, 12s. 6d. Alma 1a, 6s. 3d. Malpaso, 15s. 9d. Rossa Grande, 1s. Sweetland Creek, 5s. 6d wheat Crebor, ass. vd. Exchequer, 41s. 5d. Chicago, £6½. Flagstaff, 21s. Chontales, 8s. 3d. Don Pedro, 7s. Santa Barbara, £2½. Birdseye Creek, 16s. 3d.

Bweetland Creek, 9.8. od. Birdseye creek, 193. 30. N. Zeanad Kapan, z.

JAMES STOCKER, SWORN BROKER.

Consols, Foreign Bonds, Railways, Bank, Telegraph, Gas, and all miscellane
Shares bought and sold, and fortnightly accounts opened for same. Shares so
for forward delivery on receipt of cover. List of prices and every information
warded on application. References given and required when necessary.

BANKERS: LONDON AND WESTMINSTER.

M ESSRS. W. J. TALLENTIRE AND CO.,
STOCK AND SHARE BROKERS.
20, CHANGE ALLEY, CORNHILL, LONDON, E.C.,
Transact business in Stock Exchange Securities and Mining Shares of every description, either for immediate cash or the usual bi-monthly settlements, and also afford advice personally or by letter to executors, trustees, capitalists, and investors of every class in the selection of Securities for safe and profitable investment, their experience of the markets, extending over a period of more than sixteen years, together with special facilities for acquiring information, enabling them to act beneficially for clients.
They have established Corresponding Agencies in all the principal towns of the United Kingdom, and are prepared to deal in the various local Sicoks and Shares at close prices. Orders per post or telegraph receive prompt attention.

INVESTORS SHOULD APPLY for a copy of Messrs. W. J. TALLENTIRE and Co.s Circular, SENT POST FREE. It contains valuable information on Foreign Stocks (especially South American, Egyptian, and Turkish), Railways, and Lead Mines.

JOHN RISLEY (SWORN), STOCK AND SHARE BROKER, 38, CORNHILL, LONDON, E.C. Established 18 Years.

References required with new business, or part payment in eash with orders. Business transacted at the following rates of commission: —Foreign Stocks, ½ per cent; and Mining Shares of £4 each and upwards, 1½ per cent.; under £4, 1s. per share.

SPECIALLY RECOMMENDED: — Parys Mountain, Wheal Crebor, West Chiverton, Santa Barbara, and Wheal Greaville.

M ESSRS. ENDEAN AND CO., STOCK AND SHARE DEALERS, 85, GRACECHURCH STREET, LONDON, E.C.

LLANRWST. CAUTION-TO GUARD SHAREHOLDERS.

CAUTION—TO GUARD SHAREHOLDERS.

The shares are £3 to £3 5s., intrinsically worth £10. Some unprincipled share-dealers' brokers are adopting the following modus operand:—In the first instance, shares are offered to a few of the shareholders by circular or letter (which they have not got) under price, with a view to frighten shareholders out of their shares, and then, though a clerk, they offer the shares to a few of the other shareholders at the full price, and they make a good profit by the transaction.

The mine is looking splendid throughout, bordering upon high percentage dividends, which will be lasting. It will doubtless be the great prize in the coming spring.

EXPLEAN AND CO.

spring.

85, Gracechurch street, London, E.C., 24th October, 1876.

G. E. SIMPSON, STOCK AND SHARE DEALER, 6, GREAT WINCHESTER STREET BUILDINGS, LONDON, E.C.

OSEPH JOHN MINING BROKER STOCK AND SHARE DEALER,

6, BISHOPSGATE STREET LONDON, E.C.

Mr. PYNE having been connected with MINING ENTERPRISE for upwards of FOURTEEN YEARS, and having been a DIRECTOR of MINES in SHROPSHIRE, MONTGOMERYSHIRE, CARDIGANSHIRE, CAR-NARVONSHIRE, YORKSHIRE, and in VENEZUELA, has had great op-portunities of becoming acquainted with this particular branch of industry, and will always be desirous of giving every information in his power to all

Investors transacting business with him.

ALL DESCRIPTIONS OF SHARES are dealt in including BRITISH and FOREIGN STOCKS, and RAILWAY SECURITIES.

BANERS—THE ALLIANCE BANE (LIMITED).

MINING AGENT, STOCK AND SHARE DEALER, 3, GREAT ST. HELEN'S, LONDON, E.C.

WEST GODOLPHIN MINE.—Full particulars of this property may be obtained on application to the Secretary, at the offices of the company, 3, Great St. Helen's, London, E.C.

DOLCOATH, CARN BREA, TINCROFT, BASSET, SOUTH CON-DURROW, MALABAR, OLD TREBURGETT, LEADHILLS, NEW ZEA-LAND KAPANGA, WHEAL GRENVILLE, and PENNANT Shares may be ained at the lowest market price on application to— MR. CHARLES THOMAS, 3, GREAT ST. HELEN'S, LONDON, E.C.

MINING AGENTS, AND STOCK AND SHARE DEALERS. BUYERS of Miners, South Condurrow, and West Godolphin Shares.

TO CAPITALISTS, SHAREHOLDERS, AND INVESTORS. DIVIDENDS 4 TO 7 AND 10 PER CENT. For Safe Dividend and other Investments - Read

For Safe Dividend and other Investments - Read
SHARPS STOCK AND SHARE INVESTMENT CIRCULAR.
The DECEMBER Edition Ready, 12 pages (post free).

Safe Investments in Railways, Preference and Debenture Stocks, American, Indian, Foreign and Colonial Stocks, &c., Bank, Telegraph, Tranway, Dock, Insurance, Pea, Gas, Shipping, Financial, Commercial, Mine, and Miscellaneous Stocks and Shares, &c.—Dividends, when Payable, Market Prices, Reports, &c.;
CAPITALISTS, SHAREHOLDERS, INVESTORS, TRUSTEES
will find this Investment Circular a valuable, trustworthy, and Safe Guide.
GOULD SHARP & CO., SHAREBROKERS, 42, POULTRY, LONDON, E.C.
Established 1852.] [Bankers: London and Westminster, Lothbury, E.C.

GROGWINION LEAD MINE (LIMITED).

MESSRS. H. HALFOR LEAD MINE (ILLMITED).

MESSRS. H. HALFORD AND CO., STOCK AND SHARE BROKERS, of EXCHANGE CHAMBERS, CHANGE ALLEY, LOMBARD STREET, LONDON,

Strongly recommend the ABOVE MINE as one of the BEST and SAFEST MINING INVESTMENTS. The dividends are declared half-yearly—the one for the last half year was 12½ per cent.; the next one will probably be 20 per cent. The "reserves" are valued at £300,000. Every information upon application to the above.

The "reserves are valued as acceptance of the above.

Daily Closing Price Lists of Mines and all other Securities sent post free on application.

Messrs. H. H. and Co. are BUYERS of Shares in GROGWINION MINE, and also of Shares in WYE VALLEY LEAD MINE; and they will be GLAD TO HEAR from BROKERS or DEALERS who have ANY FOR SALE.

NOTICE. BROKER OR DEALERS HAVING SHARES FOR SALE in either GROGWINION or WYE VALLEY MINES can FIND IMMEDIATE PURCHASERS on application to—
H. HALFORD AND CO.,

SFOCK AND SHARE BROKERS, EXCHANGE CHAMBERS, CHANGE ALLEY, LOMBARD STREET.

M. EDWARD ASHMEAD. 62, CORNHILL, LONDON, LONDON MINING AGENT, ACCOUNTANT, AND AUDITOR.

Purchases and Sales of Mining Shares effected, and information given on Mines and Mining personally or by letter. Mr. ASHMEAD has been constantly engaged in Mining since 1856. British Mining Stock, in good concerns, should be purchased now, prices being low. Home Securities will rise.

MR. T. E. W. THOMAS, SHARE BROKER, 3, GREAT WINCHESTER STREET BUILDINGS, E.O.

Established 1887.

The following are the latest prices at which business could be done. Where the difference between the buying and selling price is wide transactions may be effected at an intermediate price:

Buyers Sallers.

١		Buyers. 8	ellers,		Suyers. E	Sellers.
ı	Bo lidris	£ 1 4	2 1%	Penstruthal	93	11s.
ı	Devon Great Consols	43/8	45/8		53	
	Don Pedro	5s	6s.	Prince of Wales	3s	58.
ų	Eberhardt		834	Richmond(ex div.)	9	91/
i	East Caradon	1	11/4	Roman Gravels	131/	133/4
ı	East Van	71/2	8	Rookhope	14s	16s.
	Exchequer Gold	134	2	Santa Barbara	23%	21/2
	Flagstaff	7/8	1	San Pedro	10s	158.
	Frontino	11/2	134	Sierra Buttes		136
	Glenroy(New)	134	13/4	South Condurrow	7	
	Glyn	214	216	So. Roman Gravels		1
	Great Laxey	20	21	Tankerville		
,	I. X. L	7/3	1	Tincroft		21
	Javali			Van		
•	Ladywell		134	Van Consols		2
٠	Leadhills		61/2	West Assheton		
	Marke Valley		11/4	West Chiverton		19
	North Laxey	14s		West Tankerville		134
	New Quebrada	334		Wheal Crebor		21/4
•	New Zealand Kapanga.		5	Wh. Grenville (call p)		13
	Parys Mountain	118		Wheal Jane		
	Pateley Bridge		3	Wheal Uny	23/4	5
	Pennerley	11/8	13/8			

R. WILLIAM WAR CROSBYHOUSE, 95, BISHOPSGATE STREET WITHIN, E.C., STOCK AND SHARE B'OKER. WARD

FERDINAND R. KIRK, STOCKBROKER

5, BIRCHIN LANE E.C.

SPECIAL ATTENTION directed to FOREIGN BONDS and RAILWAYS.

Some unusual opportunities are now offering for sale or purchase. Fortnightly accounts opened on the usual terms.

Wherever a difficulty nisses as to the price of any security, whether quoted or not, application should be made as above, when full particulars will be forwarded by return of post.

MESSRS. ARCHARD JONES AND CO., STOCK AND SHARE DEALERS, No. 7, NEW BROAD STREET, LONDON, E.C. The "Investment Circular and Financial Record" for December may be had gratis and post free on application.

MESSRS. J. TAYLOR AND CO.,
MINING ENGINEERS AND INSPECTORS.
86, LONDON WALL. LONDON, E.C.,
Have Agents in England, Scotland, Wales, and on the Continent.

W I L L I A M B. C O B B, 62, CORNHILL, LONDON, E.C.

Business transacted in every description of British and Foreign Stocks, Mining

hares, &c.

Fortnightly accounts opened in rails, foreign stocks, and mining shares.

VICTORIA (LONDON) MINING COMPANY (Limited).—£1 shares specially recommended, paying dividends at the rate of 16 per cent. per aunum on present price.

BODIDRIS LEAD MINING COMPANY (LIMITED).

Capital £30,000, in £1 shares.

Messrs. ENDEAN, FISHER, and CO. call particular attention to the prospectus of this company now issued; they are confident it is one of the best, and most substantial undertakings placed before the public.

The present prospects, and the discoveries made, are guarantees of its future prosperity. Those who wish to invest in one of the prizes of the day should communicate with us at once. Prospectus and map forwarded on application.

ENDEAN, FISHER, AND CO., 3, LOMBARD COURT, LONDON, E.C.

Bankers: London and Westminster, Lothbury.

STOCK.—HAYWARD TYLER AND CO., of LONDON, have now ready ENGINES, BOILERS, and "UNIVERSAL" STEAM PUMPS having made extensive alterations in their premises to enable them to keep a

In Twelve Monthly Parts, royal 4to, uniform with the Author's Treatise on Coal Mining, and, when complete, will contain about 150 plates, accurately drawn to scale, with descriptive text,

Part I, now ready, price Five Shillings,

MACHINERY: MINING

A DESCRIPTIVE TREATISE ON THE MACHINERY, TOOLS, AND OTHER APPLIANCES USED IN MINING.

By G. G. ANDRE, F.G.S , Assoc. Inst. C.E , &c.

LONDON: E. and F. N. SPON, 48, Charing Cross.

NEW YORK: 445. Broome-street.

Royal School of Mines.

PROF. SMYTH'S LECTURES ON MINING-No. LVII. [BY OUR SPECIAL REPORTER.]
The material brought from the mine having been spalled and di-

vided into several classes by means of riddles of a somewhat similar kind to those used in collieries, or of Rittinger's drum, we have next to consider into what various classes it may be desirable to divide the material. The number of divisions and the names applied to to consider into what various classes it may be desirable to divide the material. The number of divisions and the names applied to them vary much in different mining districts, but we may conveniniently consider them as six different classes.—1. Prill (Stuf-erz), the best division, which will not require anything further to be done to it to fit it for the purpose of the smelter, except perhaps to be broken up; the equivalent North of England term for this classis bing ore.—2. Best dradge ore (Aufschlag erz), which is mixed with a quantity of stone, &c, and will require to go through some process of comminution; it is a moderately rich class, which may be worked without machines, by a hand process.—3. Second class of dradge ore (Malz-erz), which is only suitable to be dressed by some comminuting apparatus, such as we have to look at to-day.—4. Stamped staff (Poch-erz), of which, in a large mine with varied products, it will be advisable to have two different kinds, the second variety being called by the name of —5. Halvans (Berg-erz).—6. Deads, or attle (Berg), the material is absolutely free from one, but that the quantity it contains is so small as not to be worth while dressing. Having made these divisions, we come next to consider the way in which we have to deal with them. A great deal of the successes of the mine depends on the judgment of the management in selecting a suitable spot for a dressing floor. It is quite obvious that it ought to be on the same level as, or perhaps a little lower than, the level of the main outlet of the mine, in order that the stuff may not have to be dragged up to a greater height. A second point of great importance is to select the ground so as to get a gentle slope, which will admit of being laid out in a series of that the stuff may not have to be dragged up to a greater height. A second point of great importance is to select the ground so as to get a gentle slope, which will admit of being laid out in a series of steps, in which a water-wheel, turbine, or similar machine, and dressing apparatus can be placed. There may be a first range for the better classes of ore (Nos. 1, 2, 3, which will be treated of in the present lecture), a second one for the inferior classes, and usually a third for dealing with what is called sline, or matter held in suspension, beyond which there should be space enough and fall enough to place slime pits in which a greater part of the material, which would otherwise flow into the stream, may accumulate. In continental districts there is commonly a great deal more building in connection with these places than in this country, in consequence

continental districts there is commonly a great deal more building in connection with these places than in this country, in consequence of the greater extremes of climate.

We may look first at the processes to be adopted for comminuting the ore. With the prills the process will depend very much on the form in which it presents itself. Very often the breaking of it up by hand will be sufficient, but when the quantities are large we want have very hard to the coupler taking one. by hand will be sufficient, but when the quantities are large we may have recourse to the crusher, taking care, however, to work it by itself, so as not to get it mixed with inferior classes of ore. In districts where the ore and matrix are not very hard, as in limestone districts, a great deal is done by hand. This is done with spalling hammers, which, according to the nature of the material, will weigh from 6 to 81b., or with very hard capels or iron-tone may be much heavier, going up sometimes to 181b. In the matter of breaking the ore with picking hammers, and sorting it at the same time, the Germans are, as a rule, in advance of us, and they lay great stress on it, because of the very mixed class of ore they have. Although many substances are associated with tin ore, they of breaking the ore with picking hammers, and sorting it at the same time, the Germans are, as a rule, in advance of us, and they lay great stress on it, because of the very mixed class of ore they have. Although many substances are associated with tin ore, they are generally not capable of being extracted by simple comminution and picking, but all has to go into classes 4 and 5 as tinstuff. In the case of copper ore it is frequently noticeable that you may get pieces of lead or other ore of a size capable of being readily picked out by hand, after being struck off with a blow from the picking hammer. Obviously it will be a very great advantage to separate the materials as much as possible in this manner, thereby avoiding the expense and trouble of separating these portions in after processes. The class of hammers used for this purpose varies a great deal: a very general form is that represented by the common cobbing hammer (short handled, the head being a comparatively long bar of iron, curvel, and with the convex side towards the hand, and with rectangular enis). The people working them are ranged at long tables, with cast-iron or great slabs of stone on which to lay the ore to be struck, sometimes called knocking stones. In some idistricts of Wicklow where the rocks show a tendency to slaty clearage, the people are in the habit of guarding their fingers by placing an iron ring round the ore. More or less cubical fragments of lead are picked out by this means, and thrown into a division by themselves, are sold to the potters as potters' ore, and fetch a much higher price than they would among the ordinary ore. This is only one instance of the importance of picking the ore carefully, and making as thorough a separation of it as circumstances will allow. The best portions of the ore thus separated may go to the prills, and will require no further treatment, the remainder will go to one of the inferior classes for further operations. The lads employed in these picking operations (who are, it may be remarked, as directions, it has not been thought a suitable apparatus, and is not used now. Many substitutes for it have been proposed—Nasmyth's hammer, and other steam hammers; and these have been largely used in some parts of the United States, especially in Lake Superior district, but we are not in possession of sufficient details as to expense, wear and tear, £c., to enable us to form a conclusion as to their value. An instrument now used largely in this and other countries is that which was brought forward under the name of Blake's stone-breaker. It is made excessively strong; a strong bed of cast-iron, slightly inclined (the angle of inclination being adjustable by the

chine can be regarded as a preliminary to some processes to be referred to subsequently; they get through an amazing amount of work, and must be very highly spoken of. If, as sometimes occurs, the men take a pleasure in throwing everything into the machine without any kind of assortment, because they see how easily the machine breaks these things up, material which might have been separated by picking and kept separate, will all be mingled up together, and this may involve extra processes at a subsequent stage, which may take days to perform.

Of other machines several have been applied with success where the material has to be brought down to a small size. For example, the edge-rolls have not unfrequently been applied—a circular bed plate, with a couple of millstones connected by a horizontal axis set to run round the bed. The rubbing edge is generally a band of iron, as is also the bed. This sort of grinder can deal only with small quantities, and as there is a rubbing action, as well as a rolling action, some of the material is ground down to an impalpable powder. Such powder may be very suitable for certain things, but where you want the ore in small fragments, in order to separate it by specific gravity, it is very unsuitable. Such machine may be useful where an amalgamation process is to be carried on, and is seen under a slightly different form in the Mexican arrastra, and sometimes in our own country, for the powdering of fiints. Instead of the millstones there are two long cross axles, with a heavy block of stone hung at each end, these blocks being the rubbing agents. In the North of Italy some machines of these kinds, but of an improved character, may be seen in use for the purpose of grinding down and amalgamating the gold ores of those districts. In the dressing of tin ore there is one department where a product is obtained which is somewhat too coarse to go on dressing with, and is at the same time so fine that you can scarcely expect to get it finer with the ordinary stamps arrangements, so that me ever been devised for grinding and amagamating the ores. The miners did not like the look of it, but some of these amateur critics gave such a high tone to their report that a company was formed. No doubt the machines were capable of doing good work, but the amount they could do, compared with some machines at work in the mines, was very small. The inventor and his assistant obtained gold out of everything that was sent to them, gosaan, granite, &c., all yielded about 1 oz. of gold to the ton, but when these two had returned across the Atlantic none of these materials could be found to contain gold at all. The lecturer was not aware that any of these machines were still in existence, though some curious relies of them might be seen in North Wales some time ago. A similar machine was introduced about the same time by a person of the machine was introduced about the same time by a person of the name of Britton, and may be seen at the present time at work in this a sort of pestle is worked round inside the basin by means of a crank movement from a water-wheel. These machines are not capable of getting through a large quantity of work, but for prilis or the second-class they may answer very well. In some of the continental and Colorado mines dry stamps are used for particular classes of ore, and a good deal of dust is produced, but beyond this there is not likely to be much loss.

We come now to a construction which has done good service in

We come now to a construction which has done good service in ordinary copper and lead mines—the crusher. The lecturer had not been able to ascertain the name of the inventor of this machine, nor the precise date of its invention, but it suddenly made its appearance in the neighbourhood of Tavistock in the early part of this century. The crusher consists essentially of a pair of rollers, which are mounted on a strong frame and rub against each other. The century. The crusher consists essentially of a pair of rollers, which are mounted on a strong frame and rub against each other. The main points to notice are these—first, there are two cheek pieces or frames of cast-iron 5 in. to 6 i · high resting on a strong beam, the whole length of the frame being 7 ft.; near the ends are strong upright about 1 ft. high. The rolls are fitted into the frame by the intervention of a couple of plummer blocks; the blocks on one side being fitted permanently close to the upright, those on the other being morable to allow of adjustment of the distance between the rolls. The rolls are made to revolve towards one another by a suitable axis or shaft, usually direct from the water-wheel if the wheel is on a small scale, or by means of gearing if a different velocity from that of the wheel is required. A lever 8 ft. long with a weight at its end is centered to an arm from the upright adjoining the moveable block, and one arm of it is connected with this block. In case of a piece of iron or steel getting in between the rolls, instead of smashing everything to pieces, it will merely force the rolls apart by lifting the weight at the end of this lever. The great peculiarity of these rolls is their proportion, and this has been brought about only by experience. It is found advisable to shorten them considerably, and to increase 'heir diameter, being commonly from 2 ft. to 30 in. diameter, and in some instances 36 in. or 37 in., the breadth at the same time being not more than 10 in. or 12 in. The form has been varied here and there; at the Great Devon Consols they have found it advisable to the rolls and the same time being not more than 10 in. or 12 in. 30 in. diameter, and in some instances 36 in. or 37 in., the breadth at the same time being not more than 10 in. or 12 in. The form has been varied here and there; at the Great Devon Consols they have found it advisable to put in rolls of two different breadths, 34 in. rolls, one 22 in., the other 24 in. broad, the reason assigned being that this is the best way possible of meeting the wear and tear, which with even the best cast-iron is very great, and gives rise to the necessity of frequently changing and renewing them. The rolls consist of three parts, a square shaft, an outer solid piece of cast-iron called the core, and outside that the shell. The latter is usually of cast-iron, sometimes chilled, and after it has undergone a certain amount of wear it is removed from the core and another put on. In Germany and on the Continent generally they have taken to employ strong springs to keep the rolls in sufficiently close contact (instead of the levers described above), and the lecturer did not find they were open to the inconveniences which had often been asserted attended the use of springs. One great point to be decided is the

the use of springs. One great point to be decided is the relocity which should be given to the rolls to get the best work from them, and another whether water should be a lowed to pour from them, and another whether water should assist their action.
down between them to keep them cool, and to assist their action.
In the case of many of the lead orea derived from strata of clayslightly inclined (the angle of inclination being adjustable by the means of some arrangement, such as a screw), and supported against a strong pillar: a morable piece of iron, which moves through a strong pillar: a morable piece of iron, which moves through a strong pillar: a morable piece of iron, which moves through a small distance, crushes the pieces of stone against the iron bed, and terial; it may be taken as from 20 to 80 ft. per minute of the circumstrated falls through partly as powder, partly as small fragments, the size of which may be to a great extent regulated by the samount of opening you give between the lower ends of the plates, land to clog the rolls, so that water cannot very well be used. In the case of quartzose material it is a very good addition. The speed must be varied according to the character of the massed. In the case of quartzose material it is a very good addition. The speed must be varied according to the character of the massed according to the character of the massed it is a very good addition. The speed must be varied according to the character of the massed it is a very good addition. The speed must be varied according to the character of the massed it is a very good addition. The speed must be varied according to the character of the massed it is a very good addition. The speed must be varied according to the character of the massed it is a very good addition. The speed must be varied according to the character of the massed it is a very good addition. The speed must be varied according to the character of the massed according to the character of the massed according to the character of the must be varied according to the character of the must be varied according to the character of the must be varied according to the character of the must be varied according to the character of the must be varied according to the character of the must be varied according to the character of the must be varied according to the character of the must be varied according to the character of th hesive clay, and to clog the rolls, so that water cannot very well be

ture of cast-iron, the surfaces wear unequally, and it is difficult to grind the whole down minutely and equably. On this account the next step desirable after the grinding processes has brought the ore down to a small and moderately equable size is the dividing it into classes, and treating each class separately.

NORTH STAFFORDSHIRE INSTITUTE OF MINING ENGINEERS.

At a meeting of the members of this Institute, held at Stoke-on At a meeting of the members of the president, occupied the chair. Mr. W. H. Gilderoy, manager, Brownhills Iron and Coal Works, Tanstall, was elected a member of the Institute,—The President, occupied the chair. Works, Tanstall, was elected a member of the Institute.—The President attended that the council had passed some resolutions from which they expected much benefit to be derived. They would shortly have to submit to the Institute a proposal for altering the bye laws, so as to enable any member to introduce, viva voce, a subject for discussion. Papers had been promised by eminent men on a process of sinking pit shafts through watery strata, on boring by mechanical means instead of by manual labour, on the application of steel to appliances for mining, and on the rise and development of locomotives. A paper was likely to be read by the president of the Field Naturalists' Club, before the members of that club and the Mining Institute, on the mining faults of the district. A paper had also been promised on the metallargy of copper, which would bear on the casting of liquid metal under pressure. The council would also submit for the consideration of the Institute the desirableness of bit monthly instead of monthly meetings. It was unfortunate also submit for the consideration of the Institute the desirableness of bit monthly instead of monthly meetings. It was unfortunate that Mr. Marshall, of Leicester, and Mr. Storey, of Ktiggrove, who had supplied papers on "The Sectional Boiler" (Shepherd's patent) and "Fan v. Furnace Ventilation" respectively, had telegraphed to say that they were unable to attend to take part in the discussion of those papers, which would take place that evening.

Mr. HOMER, in reference to Shepherd's Sectional Boiler, said that

Mr. Homer, in reference to Shephera's Sectional Boiler, said that some years ago he saw one similar to that which Mr. Marshall had described. It was commonly known as the bottle boiler, and when he was looking in at the fire-door the fireman advised him to draw back, remarking that two of the sections had already burst that morning. If they could succe-sfully adopt a system of taking a bottle in sections underground, and connecting them together, it would be a great benefit, but he certainly must say as far as he was enabled to judge he had not a good opinion of it.—Mr. F. Shlvester, of Newcastle, thought it would be difficult to persuade the colliery owners of North Staffordshire to invest money in Shepherd's patent. It appeared to him to be of the Howard type, which was now numbered with the past, and he did not think it would over be brought into general use.—Mr. J. Ashlworth, of Burslem, said Shepherd's patent appeared to be a flashdraft one, and if dirty water should be used in it it would encrust the tubes. There did not appear to be much convenience for cleaning it.—Mr. J. Macdonald, one of the vice-presidents, said he had not had much experience of sectional boilers. Taking a collery manager's view of the question they should have a large heating furness as at quilibrath a common stuff which was above.

had not had much experience of sectional boilers. Taking a colliery manager's view of the question they should have a large heating furnace, so as to utilise the common stuff which was about collieries in the shape of fuel.

Mr. ASHWORTH said a series of trials had been made with the Fairbairn, the Lancashire, and the Elephant boilers, and the results were summed up in favour of the Elephant, in which they got a large quantity of fire space, small diameters, high pressure, and everything they desired.—Mr. Homer said he had seen the Elephant boiler at work on the Continent. It did a great amount of work with a little fuel, but as a rule it carried low pressure, and he did not see anything above 35 lbs. to the square inch.—The Parsident then delivered a somewhat lengthy address on the subject, in which he condemned the Howard and the "Safe and Sure" boilers, and contended that sectional boilers aiming to carry small quantities of he condemned the Howard and the "Safe and Sure" boilers, and contended that sectional boilers aiming to carry small quantities of water were not steady steamers. Unless they had a given quantity of water to a given quantity of steam they had internal havor going on while they thought there was nothing but safety. Boilers constructed to carry a small quantity of water, and do a great amount of work, could not succeed in absorbing the heat with sufficient rapidity to remain steady heaters and steamers. It was an utter waste of time to construct tubular boilers to produce a great quantity of steam with a small quantity of coal, for as soon as they withdrew the pressure violent abullition took place, and the water could not carry the steam way.—Mr. C. LLOYD. Stoke, spoke in favour not carry the steam away.—Mr. C. LLOYD, Stoke, spoke in favour of the Safe and Sure type of boiler.—The discussion was adjourned, as was also that on the question of ventilation, in order that the writers of the papers might be present.

RAILWAY PROGRESS IN VICTORIA.

RAILWAY PROGRESS IN VICTORIA.

The advices which have come to hand this month from the great and progressive colony of Victoria are of some interest in respect to the advance of railways among the Victorians, and the probable demand for rails which may in consequence be anticipated. A line to Beechworth, 22½ miles in length, which leaves the North-Eastern system at Wangaratta, has just been inaugurated by His Rxcellency the Governor, who was accompanied on the occasion by several members of the Victorian Ministry. A kind of official imprimatur has thus been given to the work of Victorian railway construction; it could not well be otherwise, since the Victorian railways are male by the Victorian Government, and if it did not approve them it would, of course, not make them. At present there are 650 miles of Government railways in Victoria, and they have assisted the development of the colony so materially that further lines are now in course of construction in it to the extent of 320 miles more. The Victorian Government has thus mapped out a railway network of Course of construction in it to the extent of 320 miles more. The Victorian Government has thus mapped out a railway network of close upon 1000 miles, but the Victorians are still clamouring for more lines. At the date of the last advices from Melbourne proposals were before the Victorian Government for the construction of no less than 2005 miles more railway. The estimated cost of carrying out these various schemes is between 12,000,000l, and 13,000,000l, or about as much again as Victoria has already expended upon her railways. It does not appear likely that the Victorian Government will consent all at once to the establishment of the 2005 miles of new line which have been suggested for its consideration and adoption. Certainly it would not be predent for the Victorian

2005 miles of new line which have been suggested for its consideration and adoption. Certainly it would not be prudent for the Victorians to embark recklessly in the improvident construction of premature railways, still Victoria contemplates a new railway loan for 1,300,000%, so that there is a tolerably we'll assured probability of a steady demand for rails and plant on Victorian railway account. It must be borne in mind that circumstances have greatly changed with Victoria during the last 25 years. At the close of 1851 the discoveries of gold which had then been just made in the Australian colonies were beginning to direct the attention of the whole world to them, but still Victoria had great difficulties to face and overcome when she commenced in 1853 the construction of her first railways. Then her population was not half what it now is, labur and materials were inordinately dear, and loans for public purposes could not be raised at a lower rate of interest than 6 per cent. railways. Then her population was not half what there is and materials were inordinately dear, and loans for public purposes could not be raised at a lower rate of interest than 6 per cent. per annum. The result of all these combined conditions was that for some years the first Government railways made in Victoria were dismalfinancial failures. The charge which they involved annually at first to the Victorian Treasury was so severe that the construction of further extensions was, perforce, indefinitely postponed. Gradually, however, the aspect of affairs improved. The colony prospered, and in exact proportion as it prospered its railways began to prosper also, while the cost of labour and materials was likewise somewhat reduced. The credit of the Melbourne Treasury also became so strong that in 1868 Victoria su ceeded in raising a considerable loan at the sensibly easier interest of 5 per cent. per annum. From that moment the situation of the calony was changed, and the work of Victorian railway construction has since been resumed and prosecuted with more or less rigour. The Victoria of to-day has become such a strong and thriving settlement, and such a bright future appears to be opening out before its ment, and such a bright future appears to be opening out before its largely augmented population that Victorian Government dehentures are now readily disposed of by the Victorian Government at the still further reduced interest of 4 per cent. per annum. As the

TI The to be fears lion forci that Utah issui culat clude

utilis actio bank the d ness, If the is pro not si of the \$1 17 In Lo

per of Isa this c than
of Me
lode i
riches
the Si
of me
to has have the Ci d

89

he

out

the ilts

did

and

tter

veral

de-

The g for

> ded the dera-

il the

c pur-cent. s that

a were

nuslly struc-poned. colony

ys be-

easury raising cent.

action

settle-lore its dehen-

As the

cost of constructing and equipping a Victorian railway is now only about one-sixth of what it wes 20 years since, and as the construction and equipment capital can be raised upon very materially easier terms than those upon which it could be procured in 1855 or 1856, it follows that the establishment of a new Victorian line is a much less formidable matter than it formerly was. This being the case, the Victorian Government is naturally disposed to accede, to some extent, to the clamour of the Victorians for additional railway communication, which will, no doubt, materially assist the development of their beautiful colony.

MINING AND STOCK EXCHANGE NEWS OF THE WEEK. Messrs. F. W. MANSELL and Co. (Sworn Stock and Share Brokers)

Pinner's Hall, Old Broad-street, write to us as follows:—
THE COMSTOCK MINES.—The annexed figures approximately set forth the bullion produced from the principal Comstock Mines during the past hough:—

past month:-	-											
Belcher		***	***	***	***		***	***				\$ 190,000
California	***	***		***		***	***	***	***	***	***	1,178,200
Chollar-Potosi					***		111	***	0.60			49,100
Consolidated V	irgin	ia	***	***	***	***		***		***	***	1,150,600
Justice	***		***	***		***	***	***	***			174,980
Leopard		***			***	***			***		***	70,000
Manhattan			100	***	***	***	999	0.00		***	***	119,700
Northern Belle	111		***		***	103	111	**		***	***	171,600
Ontario	***		***					***	0.00	140	***	64,900
Ophir			***	***	***		***	***		***		250,000
Rex Montes			***		***				***			7,800
Tybo Consolida	ted		***	***			***		***		***	70,000
Modoc Consolie	lated		***	***		***	***		***			40,000
220000												-

SILVER MOUNTAIN MINES-EXCHEQUER, I.X.L., ISABELLE, &c

for there can be no question but they obtained their best specimens from that neighbourhood.

On a sort of bench, 200 ft. above the American ravine, and on a line with the Dayton croppings, the remains of a shaft sunk by these young men are still to be seen, the fragments of a rude furnace erected near by, and used by them in experimenting upon the ores, being also visible. They probably never pushed their researches further north than Gold Hill. Certain it is if they had ever found any of the rich silver ores of the Comstock proper, or at least such as were first struck at Virginia City, they being qualified to appreciate their value, would have taken measures to secure the discovery and turn it to practical account. The fact is they never found any ores of that character, yet to these young men more than to any others is due the merit of having first paid attention to the subject, and of actually engaging in a search after silver ores on the "Eastern Slope:" and it is not improbable that they would, had their lives been spared a little longer, have been instrumental in making more important discoveries of this metal. Comstock, whose name the Veta Madre bears, had no more to do with its discovery than the man who is supposed to occupy the lunar attendant on our planet. The circumstances that led to this singular and awkward misnomer will be explained in another paper.

THE SILVER QUESTION.—As we indicated would be the case, silver continues to improve in value. The latest advices from San

The Silver Question.—As we indicated would be the case, silver continues to improve in value. The latest advices from San Francisco state that silver bullion remains strong. Its present price would have appeared highly satisfactory a few months ago. The demand for silver coinage in several continental countries seems to be making itself felt in the world's market, and the exaggerated fears of an over supply are becoming dissipated. The heavy bullion sellers have done wisely in not crowding the markets and forcing their sales. Apropos of this question, it may be mentioned that a project has been set on foot to start a new system of banks on a silver basis in the various mining districts of Nevada, California, and Utah. The design is to receive deposits of silver coin and bullion, issuing notes against them, and thus make silver available for circulation in sums which the weight and bulk of that metal now preclude. The note system appears to be the only practical mode of utilising silver in quantities as a circulating medium. Pending the action of the silver commission on the double standard question, banking on the silver note basis presents the simplest solution of the difficulty. Any way to obtain an improved market for the silver of the Pacific Coast will do much to facilitate and animate business, and will first of all effect a better feeling in mining stocks. If these silver note banks be established on a firm footing throughout the districts which produce and are interested in silver, a large outlet would be provided, and much absorbed. There can be no doubt that the scheme is feasible if carried out properly, but if it is proposed in this way to put a fictitious value upon silver the plantannot but prove a failure. When the double standard comes again. THE SILVER QUESTION .- As we indicated would be the case, silacount that the scheme is feasible if carried out properly, but if it is proposed in this way to put a fictitious value upon silver the plan cannot but prove a failure. When the double standard comes again into use silver will return to its normal condition as money, and not simply pass from hand to hand as a commodity. At the date of the last advices the San Francisco Mint authorities were paying \$1 17c. per ounce for silver, a small advance on former quotations. In London during the week silver has again been firmer at 55\frac{1}{2}d. per oz., some Mexican dollars have been disposed of at 56\frac{1}{2}d. per oz. ISABELLE (Gold and Silver) — Among the distinctive features of

Isabelle (Gold and Silver).—Among the distinctive features of this consolidation of claims is the presence of the Veta Madre, the Mother Lode of Silver Mountain, much more conspicuously marked than in the Comstock group in Mount Davidson. The Veta Madre Mother Lode of Silver Mountain, much more conspicuously marked than in the Comstock group in Mount Davidson. The Veta Madre of Mexico has been more extensively worked than any other silver lode in that territory, but it is very doubtful whether it is the richest vein existing in that country. The metallic silver lodes in the State of Chihuahua are probably much richer. A single bonanza of metallic silver ore discovered in one of these mines is represented to have taken 18 years to exhaust and is variously estimated to of metallic silver ore discovered in one of these mines is represented to have taken 18 years to exhaust, and is variously estimated to have yielded from \$20,000,000 to \$50,000,000. First-class ore from the Chihuahua Mines yield all the way from \$15,000 to \$30,000 per ton. The Comstock has nothing equal to this. There is no knowing

what might have been accomplished in the silver mines of Mexico and Peru had they been systematically worked. What if, instead of human backs, long swinging poles, and ricketty whims bringing the ore to the surface from the depths below, and the primitive arrastres separating the metal from the vein matter, the improved machinery now employed on the Comstock had been in use? Under such a condition of things what would have been the showing in the returns, and into how brief a space would the three centurys operations have been contracted? Instead of a bonanza taking 18 years to exhaust we should probably have had it all out within as many months. Many of the Central Mexico mines have for years been privately worked by English capitalists with improved machinery, and there has been in consequence a marked increase in the aggregate silver product of the country, but the mechanical appliances are vastly inferior to those used on the Comstock and the neighbouring Silver Mountain mines.

chinery, and there has been in consequence a marked increase in the aggregate silver product of the country, but the mechanical appliances are vastly inferior to those used on the Comstock and the neighbouring Silver Mountain mines.

The question as to the origin of metals is one of general interest. Your esteemed correspondent, Mr. J. A. Morgan, has directed attention to our statement that "the igneous theory is nearly exploded among scientists and miners," raising the point how were the fissures filled? This is not always readily answered. The theory which holds good in one instance may be utterly at fault in another. Thus, in the copper mines of Lake Superior the metal is so closely associated with dykes of undoubted igneous origin that injections of the metals and enclosing trap at the same operation at once suggests itself; the same phase of vein formation occurs in Little Cottonwood Canyon, Utah, where the trap dykes contain copper, lead, and silver in at least two instances, while the silver mines in the immediate vicinity are of undoubted aqueous origin, so are the gold and silver mines of Colorado, so are the mines of the other Western states and territories. The evidences of aqueous formation are—the crystallation structures of the gangue and metals, the vertical cleavage of the gangue, the presence of cavities filled with crystals, or with metallic or other crystals attached to the walls of such cavities, the crystalline structure of the ore itself, as in galena and other sulphurets.

The filling of the vein by aqueous solution may have extended over a vast period of time—indeed, in most instances such would appear to have been the case. The mode of such filling might have varied under different conditions, but in nearly every instance the theory of infiltration is the one which appears to most nearly supply all necessary conditions. This theory supposes veins to be formed in already existing fissures by infiltration of water from the surrounding wall rock at great depth, either in the form of vapour

the ore deposits now in existence.

Where veins occur in the igneous rocks the same process again ensues, with only this difference—that the probable source of the metals is from vapours arising from the hearth of the igneous rocks below, as those rocks are too hard to be extensively acted upon by water alone. Thus we have in this great laboratory of Nature a continual change, constantly progressing towards more perfect forms of all matter, and when the placer miner picks up his pan of golden sand he only saves by water that which water once deposited, as a gold solution is deposited in the laboratory of the chemist, any organic substance almost being able to attract and precipitate the precious metal. Those vein fissures flowing little rivulets down the sides of the western mountains gave us the wonderful wealth of California in early days, while the veins themselves will yield a richer harvest to future generations.

Exchequee (Gold and Silver).—The latest official advices state

EXCHEQUER (Gold and Silver).—The latest official advices state that the north drift is in 36 ft. from the cross-cut, with good ore in the face. The stopes at the 200 continue to look well; 46 car-loads of ore have been raised during the week. When the new engine has been erected the output will be increased, and deadwork well kept in advance. The furnace and mill were expected to be running about Dec. 13. The Alpine Chronicle says:—"The ledge in the 400 ft level continues to look well." We have business in these shares at close market quotations.

close market quotations.

I.X.L. (Gold and Silver)—The official advices state that the north drift in the 200 is in 301 ft., 13 ft. having been run during the week; it is a feature of importance that good ore is already appearing in the face, although yet some 80 ft. from the perpendicular of the bonanza gone down in the upper level. Some rich ore (about 2 tons) has been found in the drain tunnel. Sinking the engine-shaft 200 ft. will be forthwith commenced. The Alpine Chronicle says:—"We learn that a body of rich ore has been struck in the I.X.L. Mine, but cannot give any particulars in this issue. Manager Chalmers is precannot give any particulars in this issue. Manager Chalmers is pre-pared to let a contract to sink the shaft 200 ft." We have business in these shares at close market prices.

in these shares at close market prices.

ASSHETON AND WEST ASSHETON.—During the last five months the sales from Assheton Mine have been 150 tons of lead and 45 tons of blende, aggregating 2247l., or at the rate of 30 tons of lead per fathom, exclusive of blende. The mine continues to open out well. The returns show a profit of 200l., irrespective of 100l. worth of copper it is proposed to sell. From West Assheton most favourable information has been received since the meeting, the lode in the 60 now being worth 30l. per fathom. This is the pioneer level towards the Tan-y-Bwlch Mine. Such a lode approaching a mine yielding profits of about 10,000l. per annum must be accepted as at least a significant indication, especially when it is remembered the other points of operation are opening out in an equally satisfactory least a significant indication, especially when it is remembered the other points of operation are opening out in an equally satisfactory manner. It is worthy of remark that there is a large "vugh" in the bottom of the 60 end, where a large stream of water is flowing, draining other points; this shows the lode to be large and porous in advance of the present end. Returns have been commenced, 10 tons having been extracted from the 45 west, from which level sufficient ore can be returned to meet the cost of the mine. It is expected in the 80 the ore ground will be reached earlier than in the 60. The mine is provided with ample machinery, and also capital to fully develope the mine. We have business in these shares at the close market prices.

GENERAL MARKETS.—The absence of alarmist removes from the

GENERAL MARKETS .- The absence of alarmist rumours from the GENERAL MARKETS.—The absence of alarmist rumours from the East caused an advance in the early part of the week in most securities; this was confirmed by favourable advices from the Continental Bourses, where public feeling seems for the moment to have veered round to a less unfavourable estimate of the political situation. The better feeling was stimulated by Prince Bismarck's speech in the German Parliament. The only adverse movement in any stocks connected with the East was in Danubian, the two issues of which fell 4 and 3 respectively. An unauthenticated report that Roumania had joined Russia in her aggressive course was apparently the cause of this decline. the cause of this decline.

FOREIGN BONDS .- The prospect before long of dearer money makes those uneasy who have been going for a rise, and have stock locked up; some calling in by bankers has already taken place. The difference between being served by joint-stock or private banks, with a moderate margin and at moderate interest, and the banks, with a moderate margin and at moderate interest, and the necessity of having recourse to the Bank of England with interest payable in advance and more margin required, will tell a tale if money continues its upward course. It is not to be wondered at that many holding stock open for the rise are now inclined to close. Among the principal movements during the week have been the violent fluctuations in South American stock upon rumours of a regulation in Farte Rise. This sufficed to cause a heavy fall in revolution in Entre Rios. This sufficed to cause a heavy fall in ecurities generally, in Argentine and Buenos Ayres par-

RAILWAYS .- The dull weather and the prospect of unfavourable

late. With increased preferential charges, &c., it must be of necessity a rare exception for any company to be able to pay more dividend than last year, yet in two or three cases calculations have been based on the probability of this, and time only will prove their over angulineness.

MISCELLANEOUS.-Less distrust is felt in the English funds than any other section, although several are engaged in a speculation for a decline. Business generally has been marked by an absence of purchasers for investment.

OUR COMMERCE IN METALS FOR THE PAST ELEVEN MONTHS.

MONTHS.

Eleven months of the year 1876 have transpired, and there is no likelihood that the remaining portion of it will materially alter the character of the year's transactions in the metal markets or in mining for metals. Coal mines are sure to be more active, especially as the export to France increases, and the rigour of the latter weeks of December will necessitate a larger demand for house coal, but the closing of the Baltic ports will check, at all events in that direction, demands for the superior metals, and the season for home building operations in the United Kingdom and France is over, a review of the metal trade is, therefore, useful and opportune just now. We will notice in the first instance the statistics of the returns, and then make such remarks as they suggest. As lead mining is in the ascendant, and investors are turning their attention in that direction, we will first notice our commerce in that metal, although not

make such remarks as they suggest. As lead mining is in the ascendant, and investors are turning their attention in that direction, we will first notice our commerce in that metal, although not so valuable as tin and copper in the market. The imports of lead for the 11 months is valued at 1,641,625/. Last year the imports of lead ore were 11,916 tons of pig; sheet, 79,825 tons; and of manufactured, 347 tons. The value of these imports was nearly 2,000,000/. No imported lead was exported. The exports of British lead were in quantity 33,459 tons, and in value 754,007/. during so far in 1876. In 1875 the export of pig-lead was 24,271 tons, and rolled sheet piping and tubing 11,127 tons, of the value of a little over 750,000/. As copper has been more largely dealt in than tin we will next in order present its statistics. In the 11 months of this year the imports of copper were—ore to the value of 862,831/L, nearly 200,000/. more than in the corresponding period of last year. Regulus, including precipitate, 956,857/L; a slight decline from the same space of time last year, when the value was a million and a quarter. Unwought or part wrought 2,840,934/L, compared with over 3,000,000/. last year. The exports of copper imported were considerable, being of the value was 1,159,721/L; a heavy falling off from 1874. The exports of British copper did not alter very materially from previous years, but there has been a noticeable decline. The total value of the exports of British copper this year has been 2,636,395/L. Last year in the same time it was 2,971,910/L, and the year before 2,933,986/L. The decline has been proportionate in every department of the trade. Unwrought in ingots, cakes, or slabs, was this year exported to the value of 893,470/L, against about 30,000 more last year. Wrought or manufactured this year, 934,551/L; last year in the same space of time considerably over 1,000,000/L. Sheathing or yellow metal 862,408/L, which in the corresponding period last year was exported to the value of 991,291/L.

Tin was

was exported to the value of 991,2911.

Tin was imported in quantity to the extent of 291,000 cwts, of the value of 1,093,000. Of the tin thus imported nearly 103,000 cwts, was "re-exported," the value having been 390,0001. During the first eleven months of last year the imports were 300,0001 more than in this year, a circumstance which does not bear out the oftrepeated complaint that our markets are glutted with foreign the to the ruin of British mines. Of the tin we imported in the corresponding 11 months of last year 30,0001, worth less than this year, so that we are importing less tin from the Straits and Australia, and consuming less, and exporting more of what we do import, a fact which will answer many lucubrations respecting the tin trade on the part of some of the Journal's correspondents. The production of British zinc—or, as its commercial name is, spelter—in all parts of Great Britain is chiefly in the form of sulphate of zinc. The quantities exported were 105,140 cwts., and the price was 122,0071, a slight increase upon last year, and a considerable augmentation upon the year before. The consumption of this metal greatly increases upon the Continent, but only a moderately increasing demand is made for it from this country, the supplies for France, Belgium, and Germany, where the consumption is greatest, being drawn from Prussian Silesia.

The imports of zinc were valued at 603,0421, chiefly—indeed, almost entirely—from Poland. The increase upon last year is 50 per cent, and the augmentation is likely to go on in an enlarged ratio, as the use of zinc for building purposes is becoming very extensive in England, especially in London; the metropolitan architects and builders have a furore for employing zinc in modern structures, as a walk along Chapside or other great London thoroughfares will show the observer. There were no "re-exports" of foreign zinc. Quicksilver not being a product of the United Kingdom all we use is imported, the quantity obtained from abroad during the 11 months was 2,700,000 lb

GOLD MINING IN CHINA.—Mr. Adkins, the British Consul at Newchwang, states in his report this year that there has been much trouble of late caused by gold miners in the northern portion of the province, the Chinese finding difficulty in suppressing gold mining, owing very likely to many of the miners being from the territory of their powerful neighbour. The district of Kirin is very rich in gold; and the Consol gives an account of the valley of Chia T'i Kou, some 30 miles long, in which there are rich diggings about five are six days' journey east by south from Kirin and Newchwang. The veins of quartz in the hill side are very numerous. The quartz when dug is roasted, then crushed, and then washed on a cradle or slip, and so rude and imperfect is the operation that it usually pays to wash the quartz two or three times. The quantity of gold found in a ton of quartz varies; but a Chinese miner, who showed the Consul aslab of quartz brought from these diggings, assured him that less than \$230 worth of gold per ton is considered a poor yield. The miners in this locality are said to be a lawless set, and to have a very peculiar social organisation. It appears that a few years ago a formidable band of brigands infesting the Krrin province was put down by a levy of hunters and foresters under the leadership of a man named Han, and for this service the Government gave him an honorary button and permission to get gold in the mountain district lying to GOLD MINING IN CHINA .- Mr. Adkins, the British Consul at button and permission to get gold in the mountain district lying to the east of Kirin. He pays an annual tribute of 20,000 taels and governs absolutely within the limits of his concession, and no official traffic returns tell irresistibly on the course of prices. Deferred stocks have been heavy and out of favour, especially Great Northern. If the tendency of speculators in this department is to go for a fall, more particularly in those securities which have been pushed up of and a number of miners and workmen in his pay. Those who are

not in his employ pay a royalty for permission to mine. The community under his rule are said to number about a thousand, and are principally Chinese, but a number of Coreans have recently ffound their way into the territory, and are working with considerable success. The Consul hears that little of the precious metal abides with the working digger, who is beset by the usual temptations to spend and squander.

THE BALLOT-TONTINE SYSTEM.

THE BALLOT-TONTINE SYSTEM.

In fulfilment of the promise made in last week's Journal, an outline of the proposed ballot-tontine system of managing joint-stock companies will now be given. That the general introduction of the principle of limited liability for the shareholders in public companies (for it should be remembered that the same privilege had long been enjoyed by the old chartered companies, so the principle was by no means new when the Act of 1855 was passed) gave an enormous and very gratifying impetus to the development of industry is beyond question, and it is equally clear that the heavy losses and bitter disappointment which capitalists have suffered in connection with joint-stock concerns are due not to any inherent defect in the principle of limited liability, but to abuses which have become by far too general in the organisation of the companies which have adopted it. The result, however, has proved equally prejudicial to commercial progress, since for some time past it has been virtually impossible to secure the direct assistance of the investing public in raising the capital necessary for carrying out any

which have adopted it. The result, however, has proved equally prejudicial to commercial progress, since for some time past it has been virtually impossible to secure the direct assistance of the investing public in raising the capital necessary for carrying out any undertaking, however legitimate or promising, the consequence being that promoters and vendors have been induced to resort to practices which, though sometimes successful, have caused the public to lose all confidence in companies generally as a source of investment for reserve capital. Nor is this surprising, for in undertakings formed upon the prevailing system the investing public must in the natural order of things inevitably lose their money. The invitation of subscriptions from the general public is now in most cases a mere subterfuge, the success or failure of a company projected depending not upon the support it receives from the public, but upon the completeness of the vendors' and promoters' organisation arrangements.

The process is now very generally understood. A few acute and often needy speculators secure a written contract from the original vendor that he will sell to them a given property at a fixed price, and then at once proceed to find a suitable promoter. The promoter may sometimes be sufficiently wealthy to act on his own behalf alone, but this is the exceptional case. In most instances he is virtually the partner or servant of a smaller or larger number of sharedealers or jobbers, who are ever ready to become members of a syndealer or jobbers, who are ever ready to become members of any of the spring of the syndicating any concern, however ephemeral, provided only it have features likely to prove temporarily acceptable to their clients. The practice of "syndicating" public companies has beyond question proved more disastrous to the bona fide investor than any other, and until it is entirely abandoned a healthy tone of business cannot reasonably be hoped for. The members of the syndicate agree to subscribe for such a number of assuming that at the real purchase price the investment would have returned 50 per cent. profit, the public purchasing of the syndicate could under no circumstances get more than 3 per cent. upon their investment.

could under no circumstances get more than 3 per cent. upon their investment.

It is to remedy this state of affairs that the Ballot Toutine system, developed by Messrs. Seymour and Smith, of Queen Victoria-street, is proposed. They maintain that if advances in commerce are to continue to be made beyond the restricted limits of private capitalists, limited liability and other incorporated companies are the only institutions capable of accomplishing these ends; yet, to satisfy public opinion, and for the safety of investers, some amendment in the present system of management and organisation of companies is now essential. They state very truly that much initial loss accrues to companies from the present loose system of "promotion" charges. Directors are either wilfully or actually ignorant of the fair value of the propercies they buy, in either of which positions they are quite unfitted to launch any company or carry on its business successfully. Before, therefore, the subscribed capital of any company is disbursed some power should be granted to the shareholders collectively, and, it ought to be added, to those shareholders unconnected with the vendors and promoters, to investigate the actions of directors prior to confirmation of promoters' contracts. And if upon investigation directors are proved to be promoters' nominees, and, therefore, unworthy of confidence, shareholders ought to be able either to reject the contracts or expel the directors. At present, however, this is quite beyond the powers of shareholders, and operates most prejudicially against the bona fide money interests of investors in company shares. When a company is "promoted," whether with bona fide intent or not speculative dealers buy and sell its shares with great spirit before allotment. This has an invariable result of sending the shares to a premium price, at which value the bona fide public investor is "permitted to obtain an interest in the company." It is impossible that a premium price can be genuine which is forced by speculative p It is to remedy this state of affairs that the Ballot Toutine system,

of consideration before offering the system to the public. A fair and impartial consideration of its provisions must prove its value as a safe and restrictive system of company formation and management. Many persons desire the passing of the Act proposed in last session of Parliament as an amendment of the Limited Liability Acts, 1862 and 1867, and, if passed, it will make the adoption of this system almost compulsory, the provisions of each being entirely in harmony. Though framed earlier than the proposed Act, the ballot-tontine system has the advantage of wholly anticipating its provisions, and embodying others more restrictive and complete for the

the great recommendation of the ballot-tontine system appears to be that the appointment of the company's officers is to a great extent taken out of the control of the vendors and promoters, although if these can show that the directors they have temporarily nominated are worthy of confidence the bona fide investors have the opportunity of making the appointment permanent. In a ballotopportunity of making the appointment permanent. In a ballottontine company's prospectus an estimate of the net annual profits
is given, and of these two-thirds are appropriated to the payment
of the fixed annual dividend on the capital subscribed, the remaining one-third being reserved for redemption of capital. Every share
is issued in the allottee's name, and gives right to a numbered scrip,
which is subsequently exchanged for either a proprietary or a redemption bond. We serip is issued expect in exchange for each to doubtedly better, and stocks there are very small.

With regard to Straits tin, Messrs. Sargant and Son report that ing one-third being reserved for redemption of capital. Every share is issued in the allottee's name, and gives right to a numbered scrip, which is subsequently exchanged for either a proprietary or a redemption bond. No scrip is issued except in exchange for cash to the amount of its full nominal value; no ballot draw is permitted in respect of undelivered scrip, and payments on account of scrip

undelivered at date of ballot or at a fixed previous date are forfeited; undelivered scrip is sold or withdrawn absolutely from issue prior to the ballot draw (unless this is done the system offers no protection); the place, date, and hour of ballot is fixed by the prospectus of each company; the ballot is conducted in public, in presence of a notary, by persons not interested in the company on affidavit sworn to that effect; all numbers used in the ballot draw run consecutively from one unwards a serie number; is drawn from one

of each company; the ballot is conducted in public, in presence of a notary, by persons not interested in the company on affidavit sworn to that effect; all numbers used in the ballot draw run consecutively from one upwards—a scrip number is drawn from one ballot-box, and simultaneously a bond number from another; the bond is at once registered in the company's books as belonging to the owner of the scrip number drawn, and the process is continued until the ballot-boxes are exhausted. Immediately after the ballot the proprietary bondholders meet and elect permanent directors, in room of the provisional directors, who then vacate office, but are eligible for election to the permanent board.

The permanent board thus appointed becomes bona fide representatives of those who have invested their money, and collusion between them and the vendors or promoters is in the highest degree improbable. The permanent board ratifies, or refuses to ratify, the contracts and agreements made on behalf of the company by the provisional directors. If ratified, they then assume the management of the company, and issue the bonds as drawn by the ballot in lieu, and on delivery by the owners of scrip. If the contracts of the provisional directors are not ratified and no satisfactory arrangement is possible between the contractors and the company, the permanent directors return within one month from the date of the ballot the whole amount of the capital subscribed, less a fair percentage to cover legitimate charges. Provisional directors receive remuneration for their services up to date of the ballot, but such remuneration for their services up to date of the ballot, but such remuneration for their services up to date of the ballot, but such remuneration for their services up to date of the ballot, but such remuneration for their services up to date of the ballot possible to be issued in exchange for the corresponding scrip number shall be ordinary (that is, redeemable) or proprietary, and if the former, also determines when it shall,

premium prices stated in the prospectus. A bonus of the estimated rate of redemption charge is added as premium price due in respect of each periodical redemption of capital.

Such is an outline of the ballot-tontine system, and one more effectual for the protection of the investor it is difficult to imagine, but whether a sufficient number of the public will comprehend the operation of the principle to ensure a company adopting it such an amount of support as will carry it through is another question. It is much to be hoped that they may, as it would quickly open a ready channel for the raising of the necessary funds for developing any commercial or industrial enterprise worthy of support, whilst it could not fail to be extremely satisfactory to those by whom the funds are provided, for, as it is very truly explained, the ballottontine system secures that capital professed to be subscribed by the public is paid for in full, so that companies cannot be set in motion with fictitious paper capital, or by vendors and promoters entering into a secret compact, whilst the powers of directors are confined more within the limits of trusteeship; the system vests the ultimate possession of the corporate properties, at the expiration of the tontine, in the holders of specified numbers of bonds, determined prior to, and drawn by, the ballot. These bonds are issued to the applicant only, and are negociable by deed of transfer. No other than the applicant or his transferees, as recorded in the books of the company, can obtain possession of them. It offers, moreover, to limited and unlimited corporations all the advantages of the old proprietary tontine system, without its objectionable features. The tontine is terminable in a given period, and does not depend on the uncertainty of life. The capital invested by individuals is returnable in full, and at a fair premium price, and is not sunk and lost by the death of the investor. In determination of proprietary bondholders have an equal interest in the properties under their co is absolute security against foul play, as all proprietary bondholders have an equal interest in the properties under their control, and the decease of one or more of their number does not increase an individual interest.

THE TIN TRADE.

Although a reduction of 3l. was made in the standard for tin ores on Monday, the prospects of the tin trade are not unfavourable, the stocks on Dec. 1 being but 1363 tons larger than at the correspondon Monday, the prospects of the tin trade are not unfavourable, the stocks on Dec. 1 being but 1863 tons larger than at the corresponding date of last year, whilst the deliveries for the first ten months have been 1143 tons greater, showing that if the stocks are augmenting the consumption is increasing also. Messrs. French and Smith, reporting on the position of the trade to the end of November, state that tin was largely dealt in, and a rise of 5t, per ton realised during the past month. On the 29th ult. the Dutch Trading Company held their last sale of this year, when 29,611 slabs of Banca realised average price of 46.60 ffs., equal to about 79t, laid down here. At the same time 3510 slabs of Billiton sold at 45.80 ffs., equal to about 78t, laid down here. These prices were considered satisfactory, and seemed confirmatory of the late rise here, but at the same time telegrams advising considerable shipments of Australian came to hand, and buyers withdrew, in the expectation of buying at lower rates. Large parcels have since changed hands at 77t, down to 75t. Straits is comparatively scarce, and difficult to buy at quotations. There is but little change in the statistical position. The total stocks of foreign tin in London and Holland and afloat for Europe on Dec. 1 was 14,368 tons, against 13,005 tons at the same date of 1875, and 11,208 tons on Dec. 1, 1874. The price of Straits tin was 77t, on Dec. 1 against 82t, and 93t at the corresponding date of 1875 and 1874 respectively. The quantity of Australian afloat on Dec. 1 was 1600 tons, against 1450 tons the same time last year, and the total imports of Australian was 6940 tons in the first ten months of this year, against 6814 tons in the same time last year, and the total imports of Australian was 6940 tons in the first ten months of this year, against 6814 tons in the same time last year. The supply of foreign tin is thought by Messrs. Sargant and Son to months of this year, against 6814 tons in the same time last year. The supply of foreign tin is thought by Messrs. Sargant and Son to show a steady, though moderate, diminution, and their view is to some extent confirmed since taking the ten months 138 tons less were imported this year than last—an amount equal to nearly three days' delivery at the November rate) the aggregate imports having been 21,449 tons in 1876 against 21,587 tons in 1875. The same firm has tabulated some calculations which have convinced them not only that the supply is diminishing, but that the percentage of diminution is much more considerable during the past three months than at any other time throughout the whole year. They believe that the results of the next three months will be still more striking, and that with a fairly improving trade the stocks will show a steady falling off during the next three or four months. It is to be noted that although the European delivaries for 1876 here exbe noted that although the European deliveries for 1876 have exceeded those of 1879 by over 1100 tons, the quantity that America has taken is fully 800 tons short of that taken in 1875, from which they conclude that the States must of necessity be eager buyers in the Straits for some time to come, as the American trade is un-doubtedly better, and stocks there are very small.

to come in during December. The shipments from the Straits are estimated at 480 tons. A very large business has been done to come in during December. The shipments from the Straits are estimated at 480 tons. A very large business has been done in Australian. The importers being able to realise a fair profit have been ready sellers, and consumers finding this description equal to Straits, and generally II. to 2I. cheaper, are getting to use it by preference, The fluctuations have been similar to those in Straits tin, and the market closes at 751. 10s. The importations have been large, comprising 886 tons, whilst the shipments are estimated at 800 tons. This quantity is not excessive, considering that September and October were very small. The markets in Holland have been fairly active, and at one time were rather excited. The Banca sale of 29,900 slabs, held on the 29th ult., realised 46 60, equal to 79l. delivered here, and the 3000 slabs Billiton sold at the same time fetched 45 87. Since the auction prices have slightly receded. The English smelters have been holding for very stiff prices, without, however, selling very freely. Prices have been somewhat irregular, as a few parcels of second-hand have been in the market. The deliveries during November were 241 tons Banca, 186 tons Billiton from Holland, and 1060 tons Straits, &c., from London (including 52 tons overside to the States), being 1487 tons, less 15 tons Billiton and Banca, sent here, making a total net of 1472 tons. The deliveries for the first 11 months of this year are 19,312 tons (of which 1582 tons overside to the States), against 18,167 tons (of which 929 tons overside to the States) in the same 11 months of 1875.

THE TIN TRADE.

	Oct. 31,	Nov. 30	, 1	Vov. 3	0. 1	Vov. 20
	1876.	1876.		1875.		1874
Straits and Australian, spot Tot	ns 7 650	7 063		5 601	,	
Ditto, landing	100	867		259	f	2,698
Straits anoat	350"	690		100		1.635
Australian, afloat	., 1,950	1,640		1,725		700
Banca, on warrants	637	1,328		410		815
Ditto, Trading Co.'s hand	s. 1,281	386		2,750		3,700
Ditto, afloat (by sailing ver	3-					.,
sel only, not adding shipmen	t					
per steamer	141	479		322	******	260
Billiton, spot	841	977		900	******	1,025
Ditto, affoat	1,500	1,300		800	*****	375
Australian tin in Holland	765	765	*****	-	******	-
Deliveries during the month i London	1,020 894	1,028 438	*****	858 356		746 350
TotalTor	s 1.914					
Prices of Straits	£74 10	£78		£82	******	£93
Shipments from Straits,	in Novemb	er	T	ons 45	304	
Ditto. Australia.	ditto			80	00	
	During	z 12 mon	ths		Dur	ing first
	ending l	Nov. 30,	1876.	1)	mor	ths, 187
Shipments from Straits to Londo						
Shipments from Australia to Lon	don	7,036			******	6,286
Deliveries of foreign tin in Londo	n ac	10,4331				9,7361
* The cable to the East being re						
† These figures do not include						a.
Excluding stock transf	erred to Ar	nsterdan	n wa	rehou	se.	

London, Dec. 1.

THE COPPER TRADE.

THE COPPER TRADE.

The highest point in Chili copper was reached early in November, when 784. Ios. and 794. was paid for "spot" and arrival. A considerable quantity of ore and regulus was taken by the smelters, and a good line of Chili copper both by consumers and speculators, and for a time, but this firmmess towards the middle of the market. The English smelters advanced their prices all round, which helped to atimulate the demand for a time, but this firmmess towards the middle of the month gave way, and as demand slackened prices became weaker, the fall in Chili being equal to 33. per ton at the close of the month. Australian sorts have been scarce, and their price better maintained than other descriptions of copper. The stock of this description is smaller now than it has been since 1871, so that the public sales of Wallaroo would appear to have stimulated the demand for this class of copper if they have not yet improved the price. In manufactured, especially for India, there has not been so much doing, but for yellow metal the demand has increased per into England for the first ten months of the following years were—1872, 67,903 tons; 1873, 58,370 tons; 1874, 61,574 tons; 1875, 67,297 tons; 1876, 64,916 tons. The exports for the same periods were—1872, 31,493 tons; 1875, 45,668 tons; 1874, 42,825 tons; 1875, 44,404 tons; 1876, 42,777 tons. The position from Dec. I, 1876, to Dec. I, 1876, was as follows:——Stock on hand, and clartered.

						Advised	by mail only
1875-December 1 £	81	0	0	Tons	20,885	Tons	29,222
1876-January 1	81	10	0	**********	20,583	********	28,978
February 1	81	0	0	***********	20,302	**********	27,843
March 1	76	0	0	**********	21,963	********	30,217
April 1	77	0	0	*********	20,734	**********	30,982
May 1	79	10	0		21,169		31,988
June 1	78	0	0	**********	22,682	***********	30,997
July 1	74	0	0	*********	24,834	**********	31,431
August 1	72		0	*********	25,596	********	31,803
September 1	72		0		24,417	********	30,548
October 1	73	0	0	*******	24,879	*********	31,679
November 1	76	10	0		25,740		33,476
December 1	73	0	0		25.802		31.623

And the comparative positions at the same date of the past four years with the present are as follow:--

		P	rice	е.	Stoc	k on ha		by mail only.
1872-December 1	£	85	0	0	Tons	30,753		
1873-December 1	******	83						
1874-December 1	*****	87	0	0	**********	20,572	*******	27,628
1875-December 1		81	0	0	************	20,885	**********	29,232
1876—December 1		76	0	0		25,802	********	31,623
The West Coast shee	Anna An T	N	2/1	-	ma 45 900 to		Inut 44 000	tone in 1875 .

The West Coast charters to Nov. 30 were 45,200 tons, against 44,00) tons in 1875 and the shipments to Sept. 30, 1876, were 38,175 tons, against 35,243 tons in 1875. Leadenhalt-street, London, Dec. 7.

HENRY ROGERS, BONS, AND CO.

THE SCOTCH MINING SHARE MARKET-WEEKLY REPORT AND LIST OF PRICES.

THE SCOTCH MINING SHARE MARKET—WEEKLY REPORT AND LIST OF PRICES.

During the past week the market has been again inactive. In shares of iron and coal concerns Lochore and Capledrae have improved 2s, 6d., but Shotts have fallen 30s., Monkland 9s, 6d., Marbella 5s., Benhar 2s. 6d., Chillington 2s. 6d., and Monkland (preference) 1s. 3d. Ebbw Vale have relapsed 12s. 6d., notwithstanding the confirmation of the resolutions affecting the capital passed at the previous meeting. A general meeting of the Rhymney Iron Company is to be held on the 20th inst, to authorise an increase of the capital Richards and Co. offer at 95s. Aldridge Collery are at 25. Cannock and Huntington, par, sellers. Cardiff and Swansea, 34s. to 35s. Chatterley Iron, 24 dis. Consett, 13½. Darlaston, 35s. to 40s.; duto Seven Per Cent. Debeature, 85, sellers. Hamstead, 20s. dis., sellers. Ivy House, 50s. dis., buyers. John Bagnili and Bons, 75s. to 55s. Mersey, 7s. 6d. dis. Muntz's Metal, 72s. 6d. pene. Park Gate, 40s. dis. to par. Pelsail, 8 to 9. Sandwell Park, 23½. Sheepbridge, 10s. dis. to par. Skerne Iron, 5½ to 7. Spon Lane, 95 dis., buyers. Uverton, 9½ to 10½. West Cannock, 6 dis., sellers. West Cumberland, 11 to 12. Whitwick, 75s. Workington Malleable Iron, 14 to 16. In shares of foreign copper concerns Thards have declined 7s. 6d., Panulcillo and Russia 5s. each, and Canadian Pyrites (new) 1s. 8d., but ditto (4f. padd) are 1s. better, and Huntington 6d. The usual dividend of 20s. per share has been declared by the Cape Company. New Quebrada are at 70s. to 80s.; San Pedro, 10s. to 15s.; Yorke Peninsula ordinary), 8s.; and ditto 15 per cest. (preference), 21s. 3d.

In shares of home mines prices are generally lower. Glasgow Caradon are 6d. lower. Tankerville have declined at 8% to 8½, notwithstanding a dividend of 5s. per share being declared, but even at this price, compared with Leadhilla of 6s. per share being declared, but even at this price, compared with Leadhilla of 6s. per share being declared, but even the firm of the firm of the fi

IOHOW:—
On THURSDAY last little business doing. Bampfylde, 10s. to 12s. 61. Benhat
done at 9½. Bolckow, Vaughan, A, 54 to 55. Cardiff and Swansea, 33s., buyers.

AR

Carn Brea, 48 to 49. Dalmeny Oil, 9½ to 9½. Glyn, 45s., buyers. Huntington, 10s. to 12s. 6d. Leadhills, 6½ to 7. Lochore and Capledrae done at 6½, closing 6½ to 6½. Monkland done at 74s., closing 65s to 70s. Oakbank Oil done at 59s. 6d. and 60s., closing at these prices; new shares done at 15s. 6d., closing 15s. to 16s. Parys Mountain, 12s. 6d., buyers. Richmond, 9½ to 9½. Shotts Iron, 10e to 10s. Parys Mountain, 12s. 6d., buyers. Richmond, 9½ to 9½. Shotts Iron, 10e to 10s. Parys Mountain, 12s. 6d., buyers. Richmond, 9½ to 9½. Shotts Iron, 10e to 10s. Parys Mountain, 12s. 6d., buyers. Richmond, 9½ to 9½. Shotts Iron, 10e to 10s. Parish Condurrow, 7½ to 7½. Tharsis done at 22½ and 22½, closing about 22½. Uphall Oil done from 13½ to 15½, closing 15½ to 16.
On FEILAY, market very dull. Aberdaunant, 12s., sellers. Canadian Pyrites, 17s. to 20s.; new shares done at 1s.; Cardiff and Swansea, 33s. to 35s. Dalmeny 17s. to 29s.; new shares done at 1s.; Cardiff and Swansea, 33s. to 35s. Dalmeny 17s. to 60s.; new shares, 14s. 6d. to 15s. 6d. Richmond done at 94. 12s. 6d. and 9½. 11s. 3d., closing 9½. 11s. 3d. to 9½. Sharish done from 2½½ to 2½, closing about 22. Uphall Oil done from 13½ to 13½. Consols, 36s., buyers. Young's Paraffin, 15½ to 15½.
On SATURDAY little business doing. Benhar done at 9½. Iss. and 9½. 16s. 3d., closing 9½. 15s. 9d. to 9½. Tharsis done from 2½½ to 15½. Monkland done at 68; closing 65; to 47s. 6d. Great West Van, 5s., buyers. Killifreth, 21s. 6d., sellers. Lochore and Capledrae done at 6½, closing 9½ to 8½. Monkland done at 68s. closing 65s. to 48s. Parys Mountain, 12s. to 3s. Dalmeny Oil, 9½ to 9½. Glyn, 45s. to 47s. 6d. Great West Van, 5s., buyers. Killifreth, 21s. 6d., sellers. Lochore and Capledrae done at 6½, closing 6½ to 6½. Monkland done at 68s. closing 65s. to 68s. Parys Mountain, 12s. to 9½. Tharsis done from 22 to 21½, closing 21½ to 21½. Uphall Oil done at 65s. to 68s. Parys Mountain, 12s. to 9½. Tharsis done from 22 to 21½, closing 21½ to 21½. Uphall Oil done at 15s. closing 12½, to

Wheal Uny, 3, sellers. Yorke Peninsula (ordinary), 7s. 6d., sellers; 15 per cent. preference, 17s. 6d. to 22s. 6d. Young's Paraffin done at 15½, closing 15l. 13s. 9d. to 15l. 15s. On Monday market idle. Australasian Mines, 8s. 9d., sellers. Benhar done at 16½, closing 9½ to 9½. Canadian Pyrites done at 17s., closing 17s. to 19s.; new shares, 1s. to 3s. Cardiff and Swames, 34s. to 35s. Dalmen, 0fl, 9½ to 9½. Ebbw Yale done at 11½, closing 1½ to 11½. Glasgow Caradon done at 27s. 5d., closing 27s. to 27s. 6d. Coloing 1½ to 11½. Glasgow Caradon done at 27s. 5d., closing 27s. to 27s. 6d. Glosing 1½ to 11½. Glasgow Caradon done at 27s. 5d., closing 27s. to 27s. 6d. Monkland, 62s. 6d. to 67s. 6d.; preference, 6½ to 6½. Nant-y-Go and Blaina (preferred) done at 19½. Oakbank 0il done at 69s. and 5s. 6d., closing 20s. to 69s. Roman Gravels, 13½ to 12½, closing 21½ to 22. Uphall 0il done from 12½ to 12½, closing 12½ to 12½. Colsing 21½ to 12½. Tanker-ville, 9to 9½. Tharsis done from 21½ to 21½, closing 21½ to 22. Uphall 0il done from 12½ to 12½, closing 12½ to 12½. West Tankerville, 32s. 6d., buyers. Yorke Peninsula (ordinary), 8s., sellers. Young's Paraffin done from 15½ to 15 and 15 i-16th, closing about 15.

On Tursday market quiet. Bampfylde, 10s. to 12s. Benhar done at 2½ 6d., closing 26s to 27s. Glyn, 45s. to 50s.; Huntington, 11s. to 12s.; LX.L., 17s. 6d. to 28s. Eachlills, 6d. 16s., sellers. Lochore and Capledrae, 6 to 6½. Oakbank 0il done at 60s. and 50s. 6d., closing at those prices. Parys Mountain, 12s. to 13s.; Port Phillip, 13s., sellers. Elchoround done at 9½, closing 2½ to 3½. Tankerville, 6½ to 9. Tharsis done at 22 and 22½, closing 2½ to 2½. Uphall 0il opened at 12t. 17s. 6d., and were dealt in from 12t 16s. 3d. to 12t. 18s. 3d., closing 12½ to to 12½. West Cumberland, 11 to 12; Whitwick Colliery, 75s., sellers: Wheal Tuy, 3, sellers. Young's Paraffin done from 15t. 10s. to 16t. 15s., then from 15t. 12s. done 13t. 4d. to 15t. 13s. 9d., closing 25½ to 25½. Canadian Pyrites done at 17s., closing 17s. to 18s.

J. GRANT MACLEAN, Stock and Share Broker.

Post Office Buildings, Stirling, Dec. 7.

FOREIGN MINES.

CAPE COPPER MINING COMPANY.—At a meeting of the directors this company, held on Tuesday, a dividend of 20s. per share, free of income tax, as declared, payable on Dec. 23.

Sr. JOHN DEL REY MINING COMPANY.—At the forthcoming meeting of shareholders the directors will declare a dividend of 20 per cent. for the different company.—At the forthcoming meeting of shareholders the directors will declare a dividend of 20 per cent. for the different company.

RT In

ar-

64.

lenhar uyers.

THE MINING JOURNAL.

The 44 sorth has a very hindly appearance, and appears to be gradually draining the water from the Pondia and a soon as practicable I shall clean it up, and decide how to make specific and a soon as practicable I shall clean it up, and decide how to make appealing and a soon as practicable I shall clean it up, and decide how to make appealing and a soon as practicable I shall clean it up, and decide how to make appealing the process of the control of the process of the process of the control of the process of the control of the process of the process of the control of the process of the control of the process of the proces

Grower Court MINING COMPANY.—At a meeting of the directory of the money, which can be produced to a flow on the court of t

mall worthless branches. The 55, west of Palgrave's contains spots of lead ore. The lode in the 65, west of Palgrave's, is disarranged by broken up ground. The same level east has fallen off in value in the past few days, but we expect it will improve shortly. The 55 east is opening good tribute ground, and worth 2 tons per fathom. In Rosa's, sinking below the 25, the lode in a become unproductive. The lode in Quinta's winze below the sismal and poor. Victoria's winze below the 25, west of Swaffield's, is being sunk for ventilation, and is opening good ground; worth I ton per fathom. Alfonso's winze below the 55, west of Palgrave's, is being sunk in advance of the 85; it is valued at 2 tons per fathom.

LANESTOSA.—Dee, 1; La Berta: In Guillermos shaft, we have just reached a lode dipping west, which seems smell, but it contains a little lead and zino ores. The ground has changed to hard siliseous rock. The lode at San Vicente shaft has narrowed to a division in stiff blue limestone, The adit level and zino ores. The ground has changed to hard siliseous rock. The lode in La Cruz deep adit has increased to 3 ft. wide, with a congenial appearance und producing occasionally stones of lead ore.—Asuncion. We are sinking in the bottom of the Cave level north to prove depth of the deposit. It books well are producing occasionally stones of lead ore.—Asuncion. We are sinking in the bottom of the Cave level north to prove depth of the deposit. It books well are provent and the ore is being got out from the tribute bargains in old mines.

LINARES.—Nov. 29: Pozo Ancho: Since last reported the lode in the 100, east of Warne's engine-shaft, has very much fallen off, and now worth only ½ ton per fathom. The lode in the same level west is large, containing good stones of ore. A great improvement has taken place in the 105, west of Teill's, yields 1½ ton per fathom. The lode in the same level west is large, containing good stones of ore. A great improvement has taken place in the 105, west of the same and frection, in the 5% is

		LEA	D O	RI	8.	
Date.	Mines.	Tons.	Price	per	ton.	Purchasers.
Nov. 30-	-Bronfloyd	25	£17	1	6	Burry Port Smelt, Co.
Dec. 2-	-Great Laxey	100	24	11	0	Nevill, Druce, & Co.
7-	- White Cliff	10	15	10	0	Adam Evton.
-	-Tankerville	150	16	3	6	George Burr.
8-	-Leadhills	200	14	16	6	Walker, Parker, and Co.
-	- ditto	160	14	17	6	Burry Port Smelt. Co.
	Top w Danloh					

COPPER ORES.

Sampled Nov. 22, and sold at Sy ansea Dec 5

Mines. Tons. 1	roduce.	Pi	ice		Mines, Tons, Produce, Pri	ce.
Betts Cove 156	. 93/4	6	14	6	Ivera Ore113 334 £2	3
ditto156	. 91/4	6	12	0	Italian Prect. 2 551/2 42 1	15
ditto143	. 95%	6	12	6	Italian Ore 36 12% 8 1	7
ditto110	. 83/4	6		0	ditto 18 123/8 9	4
ditto110	. 87/8	6	9	6	Berehaven 100 734 5	2
ditto 76	. 914	6	10	0	ditto 75 71/8 4 1	18
ditto 76	. 91/4	6	9	0	ditto 54 10 7	2
ditto110	. 81/2	6	1	0		3
Cape Ore 68	311/2	23	13	6	Copper Ore 92 41/2 2 1	1
ditto 68	. 31 1/2	23	10	6	ditto 91 41/8 2 1	1
ditto 67	311/2	23	9	0	ditto 19 5 3	
ditto 74				6	ditto 12 105/8 7	7
ditto 50				0		15
ditto 49				6		13
ditto 14				0		5
ditto 84	2334	17	6	0		13
ditto 84				6	Copper Slag. 6 1214 8	3
ditto 84				0	Copper Prect. 8 41 28 1	
ditto 83			10	6		8
ditto 83			9	6	Cop. Regulus 2, 501/8 35	8
Ivrea Ore113			4	6		

TOTAL PRODUCE.

Betts Cove Ore	F37	 £6,097	10	6	Cronebane Ore	69		£	85	Ð	0
					Copper Dust				69	7	0
Ivera Ore	226	 497	4	0	Copper Slag	6			48	18	0
Italian Precipitate	2	 1 500	14	0	Copper Precipitate	8	*****		230	0	0
Italian Ore	54	 1 000	1.4	U	Concordia Ore	16	*****		214	8	0
Berehaven	270	 1,659	9	0	Copper Regulus	2			70	16	0
Copper Ore	222	 680	5	0							
**				_							

COMPANIES BY WHOM THE ORES WERE PURCHASED.

Names.	Tons.		Ame		
P. Grenfell and Sons	118		€ 2,108	5	9
Nevill, Druce, and Co	4651/		2,047	11	3
Vivian and Sons	642				
Williams, Foster, and Co	831	*******	9,273	0	6
Mason and Elkington	84		1,453		
C. J. Lambert	3101/		4.390	6	0
Sweetland and Co	47		881	8	6
Landore Smelting Company	141	********	2,124	4	6
m-tol	0420		000 401		-

TOTALS AND AVERAGES.

21 ewts. Produce. Price. Per unit. Standard.
Whole sale ... 2639 ... 13 13-16 ... £10 0 8 14s. 6d. £95 6 4
Copper ores for sale Dec. 19.—Betts Cove 823—Union Ore 227—Cronebane 195—Copper Regulus 22—Tigrony Precipitate 10.—Total, 1274 tons.

COPPER ORES.
Sampled Nov. 22, and sold at Tabb's Hotel, Redruth, Dec. 7.

Mines.		ons.		rice		Mines.				rice	θ.
West Tolgus					0	West Basset					
ditto	**********	67		9	6	ditto				18	•
ditto	*********	63		5	0	Carn Brea				19	6
ditto	*********	61	8	14	6	ditto				9	6
ditto		57	6	5.	6	ditto	10		7	16	0
ditto	*********	53	6	2	6	East Pool	56		4	0	0
ditto		52	8	15	0	ditto				8	6
West Seton		81	3	19	6	Penstruthal	60	*****	3	15	0
	**********			5	0	West Poldice	31	******	4	8	0
	*********			7	6	ditto				14	0
				5	0	South Carn Brea	39		4	6	0
				6	6	East Basset	28	** ***	4	14	0
South Crofty .		71	2	15	6	ditto			1	13	0
ditto		52	2	15	6	North Busy	18	******	4	13	0
				3	0	Poldice	14		2	14	0
Wheal Basset .		52	6	3	6	ditto			6	8	0
ditto		37	4	5	6	Wheal Comford	16		9	2	6
	**********			1	6	Treleigh Wood			5	10	6
West Basset		£2	2	1	6	New Rosewarne				14	6
			TOT	AL	PH	ODUCE.					
West Tolgus	427	£	2462	14	0	West Poldice	52	£ :	235	2	0
West Seton	305		1347	9	6	South Carn Brea	39	1	167	14	0
South Crofty .			470	9	6	East Basset	36]	145	10	0
Wheal Basset .	118		655	9	0				83	14	0
West Basset			337	13	6		17		57	0	0
Oarn Brea	85		329	17	6			1	146	0	0
East Pool			366	15	0	Treleigh Wood	10		55	5	0
Penstruthal			225	0	0	New Rosewarne			22	18	0

COMPANIES BY WHOM THE ORES WERE PURC	HASI	gD.	
Names. Tons.	Ame	oun	t.
Vivian and Sons 335	£1660	13	0
Granfall and San	599	5	9
Novill Druce and Co. 1891/	886	3	9
Williams, Foster, and Co 3901/2	1824	0	3
Mason and Elkington 245	1070	8	6
Charles J. Lambert 81	321	19	6
Sweetland, Tuttle, and Co 1941/6	746	0	3
Total 1544 4	7108	11	0

NO SALE on Thursday next, December 14.

Copper ores for sale at the Royal Hotel, Truro, on Thursday week—Mines and parcels.—Devon Great Consols 8:0—South Caradon 470—Marke Valley 344—Emnens United 269—Glasgow Caradon 255—Gawton Copper 185—Hingston Down 150—East Caradon 110—Wheal Russell 100—Phonix Mines 95.—Total, 2838 tons.

Mining Correspondence.

BRITISH MINES.

BRITISH MINES.

ABERDAUNANT.—8. Toy, Nov. 27: Setting Report: The deep adit cross cut is now under the new engine shaft, an 1 the men are engaged blasting down the sides of the level to make room to rise, which they will finish in a day or two, when 1 shall set them to rise towards the shaft. No. 1 adit to secure with timber, by two men, and to finish the same, at 11. 15s. per fathom. In the east part of the sett (Crowlewn) the cross-cut to drive towards the south lode, by six men and one boy, at 81. 15s. per fathom, for the mouth; the ground is much the same for driving as it has been for several weeks past, but discharging more water.

S. Toy, Dec. 6: In the deep adit level the cross cut is now driven under the new shart, and I have set six men to rise towards the shaft, at 161, per fathom for the menth. We have finished the timbering of No. 2 adit level. In the east part of the sett (Crowlwm) the cross-cut driving towards the south lode still continues hard, and discharging much water.

ASSEEDON.—John Crare, Jode Manley, Dec. 6: The 80, east of boundary shaft, is carefuled 28½ fathoms; the lode is of a very promising appearance, and is yielding good stones of lead and blande. Within the last day or two we have met with a branch in the north side of the level, producing about 5 cwts, of lead per fathom, and verging towards the lode; when this branch fadis into the lode, seeing that this end is approaching the run of ore gone down in the sole of the 40, west of Browne's, we are of opirion that good results will follow. We should also remark that if this end is continued it will drain all the mine to a depth of 45 fathoms, and will avoid all pumping at Mawr and Browne's shafts, and will also remark that if this end is continued it will drain all the mine to a depth of 45 fathoms, and will avoid all pumping at Mawr and Browne's shafts, and will also remark that if this end is continued it will drain all the mine to a depth of 45 fathoms, and will avoid all pumping at Mawr and Browne's shafts, and will also remar

onk here in har warming of the cross-cut north in the 24, 76 fms. east of riven 4 fms. toward's Bowyer's flat-rod shaft, and the above required depth (24), and are now driving against the said hole in the present week, when I shall at once drive south by et the south lode, which in all probability will be intersected in and I have a strong opinion that on this lode will be opened

no. ware, worm 25 tons of Diende per lattion. The prevents our getting any of the blende dressed up in the shaft tells me that he worked with his father that they cut the Liannwst lode, and drove lot it that they had good lead in driving, and sunk a few, where there is a good lode of lead, but they were ewater which can be let down by the deeper level, long distance.

yielding 14 cwts, of ore per cubic fathom, or about 19 cwts. for the width of the vein.—Sun Vein: As the winze under the cross-cut at the 70 has proved since passing through the orey flat to be off to one side we have discontinued sinking, and have put the men to stope the bottom of the cross-cut till we reach the vein, taking with them the orey flat, which continues the same as when sunk through, 3 to 4 ft. in thickness, and worth 16 cwts. of ore per lineal fathom. We have assayed the ore from this flat, and find it contains 18 oz. 15 dwts. 16 grs. silver per ton of lead.—North Vein: The cross cut at the 50, cast of Reed's shark; is being pushed by four men; the ground is a little easier, and still letting out water freely.—Theydor's Shaft; Middle Vein: The cross cut at the 41, cast of shaft, continues much the same, worth at present 10 cwts. ore per fathom: wind 2 ft. wide. The stope in the Little Limestone, in the back of this level, reported in the last report at 18 cwts. ore per fathom, has been cut up to foredreast, and the men have now been put to stope in the coal sill, also over the 74, where the vein is worth 16 cwts. or foredreast, and the men have now been put to stope in the coal sill, also over the 74, where the vein is worth 16 cwts. of ove per fathom.—Surface: The walls of the wheel pit are up, and the frame, 12 (t. by 8 ft., of good Memel timber, fixed on the top ready to receive the waterwheel Machinesy all the recording good duty.

DEVON GHEAT ONNOLS—3 differs's cross cut, on the new south lode, the tode is still 2 ft. wide, and produces a little ore. In Blackwell's shaft, sinking

12 ft. by 8 ft. of good Memel timber, fixed on the top ready to receive the water-wheel Machinery all berforming good duty.

DEVON GREAT CONSOLS.—J. Richards, Dec. 8: Wheal Anna Maria: Engine—Shaft: in the 80 west, and west of Jeffey's cross-cut, on the new south lode, the lode is still 2 ft. wide, and produces a little ove. In Blackwell's shaft, sinking below the surface, 90 fms. to the west of Jeffey's cross-cut, on the new south lode, but little has been done, owing to the great increase of water, arising from the recent heavy and incessant radn; the fode still produces a little black oxide of copper.—Wheal Jossiah: Richardis's engine shaft is in regular course of sinking below the 250; progress, however, is slow, owing to the ground having again below the 250; progress, however, is slow, owing to the ground having again below the 150; and the shaft in Friend's cross-cut south, at the 13f, cast of the incline shaft, fair progress is being made. This cross-cut is being driven for the purpose of intersecting the new south lode some 45 fms. to the east of the present 115 end, and for ventilation. It has to be driven some 35 fms. further to intersect the lode, which at the present rate of driving will occupy about eleven months from the present date. The lode in the new shaft, on the new south lode, is still 3 ft. wide, and worth for length carried (10 ft.) 8 tons of ore, or 30, per fathom. This shaft is suspended for about six weeks to admit of top and trip lits being cut, dividing and easing the shaft, and putting in skip-road from the 160 to the 175, on the completion of which sinking will be immediately resumed.—New Shaft, New South Lode: In the 160 east the lode for the part carried is 5 ft. wide, and worth 7 tous of ore, or 30, per fathom. In Correll's winze, sinking below the 160 east, the lode is a good course of ore, worth for the length admitted carried (9 ft.) 10 tons, or 60, per fathom. In the 145 east the lode is 4 ft. wide, and worth 5 tons of ore, or 30, per fathom. In the 162 east the lode is 2½

of reaching the 25. The cross-cus sound, from any below the 25 fm, level by the side of the lode.

FRANK MILLS.—J. Rowe, N. Addems, Dec. 7; The 100, north of engine-shaft, on east lode, is producing 8 cwts, of lead ore per fathom. The stope in the back of this level is producing 10 cwts, of lead ore per fathom. The stope in the back of this level is producing 10 cwts, of lead ore per fathom. The stope in the back of the 84, north of engine-shaft, on east lode, is producing 4 cwts, of lead ore per fathom. The lode in the 72, north of cross cut, west of boundary rise, is producing a little lead, and looking kindly for an improvement. The stope in the back of this level is producing 5 cwts, of lead ore per fathom. The stope in the back of this level, north of boundary rise, between the 60 and 72, is producing 8 cwts, of lead ore per fathom. The 60, north of boundary rise, is being driven by the side of the lode; when last taken down was composed of spathose iron, producing a little lead and blende. No. 1 stope, in the back of this level, is producing 7 cwts, of lead ore per fathom: and No. 2 stope is producing 8 cwts, of lead ore per fathom. The rise in the back of the 60 south is producing a little lead. The 45, south of cross-cut, north of Orbard air-slaaft, on east branches, is producing 6 cwts, of lead ore per fathom. The stope in the back of the 45, north of cross-cut, and south of Orchard air-slaaft, on these branches, is producing 4 cwts, of lead ore per fathom. The tribute department is producing moderate quantities of lead. We have four of the improved plunger-jügers at work, and are preparing two more as fast as possible.

south of Orchard air-shart, on these branches, is producing a cwts. of lean ore per fathom. The tribute department is producing moderate quantities of lead. We have four of the improved plunger-jiggers at work, and are preparing two more as fast as possible.

GAWTON COPPER.—G. Rowe, G. Rowe, jun., Dec. 2: The lode in the 132 east is 5 ft. wide, producing good stones of ore, and showing a very improved appearance. The lode in the stopes in the back of the 117 east is worth 107, per fathom. The lode in the stopes in the bot om of the 93 is worth 64, per fathom. We have discontinued the 82 cross cut driving south, and resumed the drivage east on the course of the lode, which is 5 ft. wide, and producing stones of ore. We have five tribute pitches working by 14 men, from 12s. to 13s. 4d. in 14. We sampled yesterday, computed, 185 tous of copper ore.

GLENROY.—R. Rowe, Dec. 8: I was underground in Glenroy yesterday. Report posted. Nothing especially new since last report.

GLENROY.—B. Rowe, Dec. 8: I was underground in Glenroy yesterday. Report posted. Nothing especially new since last report.

GLYN.—J. Rouch: The engine shaft is now 6 fms. under the 28, and is being sunk as vigorously as possible. The 28, west of shaft, is very promising for lead. I think we shall be able to report favourable results at an early date.

GREAT DYLIFFE.—E. Rogers, Dec. 6: Dyliffe Lode: At the 132 we are driving west of the engine-shaft by six men, at 64, per fathom: the lode is worth 194, per fathom. At this level east the lode is also worth 194, per fathom. The shaftmen I intend to put to drive this end are engaged with the carpenter in fixing pulleys to carry the wire-rope for drawing the skip below the 120. The 120 is driving west by six men, at 34. 10s, per fathom: the lode is of just the same value as in the end—194, per fathom. The 130 end, east of the engine-shaft, is suspended for the present, and the men (six in number) put to rise in the bedé at 64, per fathom: the lode has yet been taken down since we commenced rising and s

RETALLACK .- John Harris, Dec. 2: The lode in the 20 west is pro

men, as these workings are now thoroughly ventilated, and can be pushed on rapidly. There has been a little over in 16 end driving case during the greater part of the past most if the workings on this lofe, with the exception of a sign and will pay, be suspended, and that our future operations be confined to the development of the south lode, where I think there are yet fair chances of success.

MELLAN EAR.—Dec. 6: The lose in the 30, west of skip shalt, is 21c, wide, will pay, be suspended, and that our future operations be confined to the development of the confined to the confined

under the bed of ore, is also in similar ground.

PEDN-AN-DREA CONSOLIDATED.—W. Tregay, William Prideaux, John Pope, Dec. 7: Sump: In the 140 east winze the lode here (Martin's) is worth 40. per fathom. In the 140 east end the lode here (Martin's) is worth 20. per fathom. In the 140 west end the lode here (Martin's) is worth 10. per fathom. In the 150 west end the lode here (Martin's) is worth 10. per fathom. In the 160 west end the lode here (Martin's) is worth 10. per fathom. In the 160 west end the lode here (north) is worth 10. per fathom. In the 50 west end the lode here (north) is worth 10. per fathom. In the 50 west end the lode here (north) is worth 10. per fathom. In the 160 here is bottom of the level, but we cannot prosecute the sinking further until the 160 end shall have been farther advanced—partially driving it, as it contains a large quantity of water. In the 80 west end the lode here also will produce 2 tons of black tin, worth 90. per fathom. In the 60 west end the lode here is worth 20. per fathom. In the 55 west end the lode here is worth 12. per fathom. In the 55 west end the lode here is worth 12. per fathom is many the 160 per fathom. In the 160 here is worth 161 per fathom. In the 160 here is worth 161 per fathom. In the 160 here is worth 161 per fathom. In the 161 here is worth 161 per fathom. A good deal of water thous from the forebreast, and prospects for a further improvement most encouraging. All other points are wilthout change to notice, bargains and pitches yielding value put upon them in our setting report. To day we have sent out sampset for he sate of 60 tons lead or on the 13th instant.

PENSTRUTHAL.—Wm. Teague, Dec. 4: In the Highburrow shaft, sinking under the 70, the lode is of a most promising appearance, and will shortly, from present indications, be productive for copper ore. In the 58, west of shaft, the lode has much improved led using the last two days and is producing good stones dependent in the produce of the 60 tons of copper is much better that he last parcel.

e last parcel. PLYNLIMMON.—John Garland, Dec. 7: I beg to inform you that there is PLYNLIMMON.—John Garland, Dec. 7: I beg to inform you that ther change calling for remark in any of the underground operations since might the exception of a slight improvement in the 24, east of new wing ode is getting into its usual bearing and underlie; there is a cavity in the off the end, from which I have to day taken some good stones of lead or ull 15 cwts. per fathom. At surface incesson rains have militated againestion of pulley stands for line of rods. Drawing and dressing are being an as fast as possible towards the sale of another parcel of lead ore. PRINCE OF WALES.—J. Andrews, J. Pryor, Dec. 6: The following vetting on Saturday:—To drive the 55 end, west of shaft, by six men, at 1sthom: lode 3 ft. wide, yleiding saving work for proce. To drive the 45 cad west, by six men, at 150s. per fathom: lode 3 ft. wide, yleiding saving work for proced of quartz, capel, mundie, and yleiding yellow and black cophroughout; a very promising lode.

omposed of quartz, caper, minutes, and yearing the proposed of quartz, caper, minutes and yearing the proposed of the proposed

ery slowly.

RELISTIAN CONSOLS.—J. Curtis, Dec. 6: In the 24, cast of Duke's shaft, we are some very good tin, and from the increase of water I think we shall lares along to the lode soon. We are making good progress in the winze, and in about fine further sinking shall reach the 10 fm. level.

ROMAN GRAVELS.—A. Waters, Dec. 7: The mine in the 106, the 95, the 8, and the 65 fm. levels south is opening out in the most satisfactory way, as for respects after looked brighter than now. The stopes throughout the mine as telding their usual quantities of leaf ore. The surface work is going on regulary

for m 1 to first of ground to belie to the stope in the backs of the 20. We met with state good burdness of ore at the top put of the winzs. Not looking so well in the bottom, the ground being disordered by the intersection of the water part of the winzs. Not looking so well in the bottom, the ground being disordered by the intersection of the water part of the winzs. Not looking so well in the bottom, the ground being disordered by the intersection of the water part of the cross course. I propose to put a pare of men to stope the bottom of the 10, and the constant of the cross course. I propose to put a pare of men to stope the bottom of the 10, and the constant of the constan

past. V
WES3
Taylor's
shaft thi
air paum
very goo
side of \(\)
15 tons o

-still pe
we can:
0 n Frids
and is fo
morning
as everyt
day for s
WHES
Saturday
2 ft, wide
the lode;
c apper.
Idde is 4:
130s, per
by four n

is 3 % fg. . WHEA

fixed penthouse at the Plantation shaft, and are now urging on the sinking below said. The 40, east of new shaft, is worth 5l. per fathom. The 50, east of the cross course, on the tin lode, is worth 8l. per fathom. The rise in back of this level is worth 12l. per fathom. The 60 west is worth 7l. per fathom. The rise in back of this level is worth 30l. per fathom. The 60 east carries a little tin. The 70 west yields low-quality tinstone. The winze in bottom of the 80 west is worth 8l. per lathom. The 80 fathom level end east is worth 10l. per fathom. The 93 west is

yields low-quality thistone. Yields low-quality thistone. The 80 fathom level end east is worth 10%, per fathom. The 80 fathom level end east is worth 10%, per fathom.

SOUTH OWMYSTWITH.—John Kitto, Dec. 2: We have commenced to sink a winze below the upper level on No. 2 lode, and have very good ore in it, worth about 3 tons to the lathom. The water is very quick in it, and makes it very troublesome for sinking, but I expect to intersect the same lode in the intermediate cross-cut in about ten days time, which, I hope, will drain the whole of the water from the winze. This intermediate level is 12½ fms. below the upper one, and should it prove as rich in ore, will lay open a good lot of ground for stoping. There is nothing particularly new in any of the other bargains, but in every place fair progress is being made, and our prospects continue steadily and satisfacts to improve.

place fair progress is being made, and our prospects commine steading and satisfactorily to improve.

SOUTH DAKREN.—H. James, Dec. 2: I am glad to inform you the lode in the go west is looking very well indeed in the north side of the level back 2 ims. from the present forebreast; it has further improved since I have sent on the report; lode large, not cut through yet, worth for lead fully 30t, per fathom, and likely to hold on to the forebreast; the end has been driven on a part of the lode not so

SOUTH Discrete to the country of the level back 2 fms. from the present foreogenest, it has further improved since I have sent on the report; hold on to the forebreast; the end has been driven on a part of the lote on to bind on the forebreast; the end has been driven on a part of the lote on to bind on the forebreast; the end has been driven on a part of the lote on to bind on the forebreast; the end has been driven on a part of the lote on to bind on the forebreast; the end has been driven on a part of the lote on the lote of the lote of

into the section of a section of the source of the source

diately. I would remark, in conclusion, that we shall be getting into regular working order on the new section of ore ground at the 180, east and west of Watson's shaft, next week, and I hope and expect that good results will turn up as the ends end stopes tropress.

TANKERVILLE.—A. Waters, Dec. 7: The 180 end east, as well as west of the chart cross-cut, and the stopes in the back of the level east of the winze, are all epening out in a very satisfactory way, and our prospects are, therefore, very encouraging. Our raisings and quantity of ore weighted into the bin therefron for the week ending on Saturday next will be 60 tons.

TKEBEIGH CONSOLS.—J. Gifford, Dec. 7: Ward's engine-shaft is now 18 fms. 3 ft. below the surface. Ground still favourable for progress.

VAN CONSOLS.—J. Rosch: All preparatory work in Gundry's shaft is accomplished, and sinking the engine shaft under the 46 commenced. In the 40, east of Gansiry's, there is no material alteration in the lode since my last advice. We expect to set to work in material alteration in the lode since my last advice. We expect to set to work in material alteration in the gear work of the engine. We shall have filled the stope in course of a day or two, when active operations will be commenced on the ourse of a day or two, when active operations will be commenced on the c. We shall sample another parcel of lead as early as possible. WEST ASSHETON.—J. Craze, J. Manley, Dec. 6: The 80, west of boundary, is extended 4 fms.; the lode is much the same as reported on last week. The 69, west of boundary, is extended 4 fms.; the lode is yielding lead and blende of a promising character, and we anticipate an early improvement. We shall sample it mass clear the lode on though a suppression of the mine have considerably improvement. We shall sample it mass clear and the winze sinking below the 12 are both looking well, and yielding very good leadstuff. The prospects of the mine have considerably improved during the past month, and my opinion in its ultimate success has bee

good results shortly. PATELEY BRIDGE.—D. Williams, Dec. 7: The 56 is let to six men to

ground in out no very improved above the e past, but The winzs g least. The lepartment

of the orey it, which is and looks ood indica-

7 : We have

at 121. per fathom. The 180 to drive west of western shaft, by two men, at 81. per fathom. The 150 to drive east by two men, at 81. 10s, per fathom. The stope in the bottom of the 150 cast is set to four men, at 5s. per ton. The stope in the back of the 150 cast level is set to four men, at 5s. per ton. The stope ast of ditto is set to four men, at 5s. per ton. The stope in the back of the 150 is set to two men, at 5s. per ton. The stope in the bottom of the 1'0 cast level is set to six men, at 5s. per ton. The stope in the back of the 130 cast level is set to six men, at 5s. per ton. The stope cast of ditto is set to six men, at 4s. 9d. per ton. The 130 cast end is set to two men, at 71. 10s, per fathom. The 130 cast end is set to two men, at 71. 10s, per fathom. The 130 cast end is set to two men, at 71. 10s, per fathom. The 130 cast end is set to two men, at 71. 10s, per fathom. The 130 cast end is set to two men, at 71. 10s, per fathom. The 130 cast end is set to two men, at 71. 10s, per fathom. The 130 cast end is set to two men, at 10. 10s, per fathom. The 130 cast end is set to two men, at 10. 10s, per fathom. The 130 cast end is set to two men, at 10. The 130 cast end, on the old lode, is set to two men, at 71. 10s, per fathom. The 130 cast end is set to two men, at 71. 10s, per fathom. The 130 cast end, on the old lode, is set to two men, at 51. per fathom. Thursday last.

WHEAL KITEV (8t Arnes). S. Dance R. Harris, Dec. 2. We have no change in the value of the bargains since my report for the meeting on the set of t

set to two men, at 86. 10s. per fathom. The 130 west end isset to two men, at 10f. per fathom. The 130 east end, on the old lode, is set to two men, at 5f. per fathom. I see no change in the value of the bargains since my report for the meeting on Thursday last.

WHEAL KITTY (8t. Agnes).—S. Davey, R. Harris, Dec. 2: We have no change to report in any or either of the bargains; the men generally throughout the mine are desuing the lode.

WHEAL UNY.—William Rich, Matthew Rogers, William Bennetts, Dec. 2: Hind's engine shaft, below the 160, is worth 25f. per fathom for the length of the shaft. The 150 west is letting out water freely, and carries stones of tin. The 150, west of incline, is worth 2f. per fathom. The 150, east of Goodinge's, is unproductive. The 140 end, east of King's, is worth 12f. per fathom. The 150 east is worth 12f. per fathom. The back of the 60 west is worth 8f. per fathom. WHITE CLIFF.—John Jones, Dec. 7: We have to-day sold our second lot of lead ore, the quantity being 10 tons; the purchaser is Mr. Eyton, who gives us 18f. 10s. per ton for it. I am glad to inform you that we have at present three times the above quantity on surface, and that the workings out of which this quantity has been raised look very well, being worth fully 36f, per fathom for lead ore; this is in the eastern portion of our set, known as A'twen. In the western portion of our set, known as A'twen. In the western portion ore; but the heavy rains we have had lately have flooded this portion, so that for the present we are compelled to leave it. I am, however, anxious to resume operations here, believing that when we can excend our plans in this part of our mine the company will be amply remunerated for their outlay, as the lode at a comparatively shallow depth is very rich for ore and improves by sinking.

WYE VALLEY.—John Kitto, Dec. 2: The lode in the 22, east of engine shaft, has considerably improved in character, and is now yielding 1 ton of lead ore to the fathom; the present we are even proved in the story of th

OOLA HILLS SILVER-LEAD MINES,

OOLA HILLS SILVER-LEAD MINES,
COUNTY LIMEMICK, IBELAND.

Dec. 4.—In handing you report of these mines I beg to state, since I sent you detailed report on Oct. 2, we have continued the drivage on the caunter lode to the south-west, with the object of reaching the junction of three lodes which we discovered and opened on at surface. In doing this the caunter lode has opened out well, averaging 3 ft. wide, its composition being a mixture of elvan, barytes, quartz, gossan, mundic, and lead ore, but not enough of the latter to value, although we have had lead ore disseminated throughout the lode for 18 fms. in length, and has been a fine looking lode for the production of mineral at a deeper point for all the distance driven. We have now reached the first junction, and have a good change for the better; this is as we anticipated. We have now good stones of lead ore, with a splendid matrix, and no doubt when the other two junctions are reached they will also be found as good as the last named. Let me say this is a new feature in this mine, and is a new run of ore ground that was never seen by the previous workers, neither did they know these l-des existed. Alihough this level is only 7 fms. from surface, it holds cut every promise that great riches will be found as depth is attained.

Eross-Cutz.—We have driven a gross-cut south and to the east of the engine-shaft:

workers, neither did they know these l-des existed. Although this level is only 7 fms. from surface, it holds out every promise that great riches will be found as depth is attained.

Eross-Cur.—We have driven a cross-out south and to the east of the engine-shaft; this is driven about 20 ft, and is in all lode for the distance driven, carrying lead, but not in paying quantities; its composition is elvan, barytes, mundic plentiful, and some copper ore. This also is a beautiful looking lode, and is standing to the south of engine-shaft; should this lode hold down, of which I have no reason to doubt, it will be one of the grandest discov-ries I have seen in any mine for many years. There are still more lodes to be intersected to the south of this point, but I advise the next trial to be made from the bottom of the mine in the engine-shaft, and put out cross cuts both north and south, and open the whole group up at that depth. We know the great north lode that we have lately discovered was never seen by the former workers, and we know that it has never been seen in their workings, although it is not far off; if this is done my impression is you will open out such a mine that will pay large profits.

PETERS SHAFT.—The water is in here, so that we are hindered from driving to intersect Peters' branch or lode to the south of shaft; when stopped the end was in clvan, the same being spotted with lead, and plenty of mundic scattered throughout the elvan. At the shallow cross cut where the branch was first out the men are driving on the branch, and I am glad to say we are breaking some good lead; the branch is about 10 in. wide, composed of barytes, mundic, and lead ore, and seems to be opening out wider as we advance with the driving. In conclusion, I beg to be opening out wider as we advance with the driving. In conclusion, I beg to always to be opening out wider as we advance with the driving. In conclusion, I beg to have a good rich mine here, only open it up properly. I may add the previous workers operated on one lod

ECHOES FROM THE MINING MARKET.

The fall of 3l. per ton which took place on Monday last in the Cornish standards was unexpected, and occurred at a very inopportune moment. We are not likely to see a rally until the Christmas

Cornish standards was unexpected, and occurred at a very inopportune moment. We are not likely to see a rally until the Christmas holidays are over, for we have now to encounter a very dull period of the year. A check has, of course, been given to tin shares, and prices are in many cases nominal again. The reduction appears to have caused great dissatisfaction throughout the county, as it is not onsidered to have been warranted by the actual state of the market for that metal. Lead shares have been dull, and business throughout the different departments of the mining market has been on a restricted scale.

Devon Consols has a credit balance of nearly 65001, and on the last six months' working has managed to make a small profit of 4511. This is rather a change from the time when the adventurers (the mines were then conducted on the Cost-book Bystem) were dividing 60,0001, per annum. Sill, there are healthy signs of encouragement for the shareholders even in these far less prosperous times. The samplings, we hear, will soon reach 1000 tons of copper ore per month. The sale of arsenic are going on well, and a contract has been made for the whole supply for 1577. The mines are looking well, and the various points in operation are valued in the aggregate at 2592, per fathom.

We understand that South Dolcoath, once thought a promising sett, but abandoned when the workings had only reached a very shallow depth, is to be reworked. Chemical works have now been erected at Holimbush and Kelly Bray like those at the adjoining property of the New Consols Company. Report does not speak very highly of the capabilities of these works a present, and greater engine-power appears to be required before it can be said that the mine is economically worked. Carlage costs, too, we hear are far heavier than the mine can afford. With these disadvantages ameliorated, the adventurers may carn fair profits. Killifreth has sold 10½ tons of this for 451. les, per ton. West Godolphin has lately made 462, per ton for its ore, and we centinue

MEST PATELEY BILDGE.—D. Williams, Dec. 1. The 56 is let to six men to drive north-west upon Craven cross vein: the indications here are very favourable for a speedly improvement. The 42 to four men, in John keep case without any change to notice. Two or more men to drive and stope casts of the state of

ances as those now presented, it is only fair to assume that West Assheton will become equally remunerative, and with time develope into as great a prize. My ances as those now presented, it is only fair to assume that West Assheton will become equally remunerative, and with time develop into as great a prize. My advices from Wheal Agar are again very promising, and great improvements are manifesting themselves. The advices from Leadhills are likewise encouraging, and the mine is daily becoming more productive. Pandors is also commanding considerable attention, and the progress now being made is followed with great interest. The latest advices are still very satisfactory, the improvements alluded to last week being still maintained. I hope to have some important intelligence in a few days, which shall be communicated in my next week's letter, or will be sent direct to those who may write me. I am more confident than ever in the future of this mine.

In concluding these remarks I would remind my readers that as December is, alike in weather as well as in finance, a dull month, so it also is known to shrewd speculators as the buying month, and advantages should be taken by all who have money ready for investment to lay out their capital at once whilst temporary depression exists. The turn of the year almost invariably brings renewed activity in business, and consequently higher prices terb sap.

76, Old Broad-street, London, E.C., Dec. 8.

THE WEEK.

THE WEEK.

SATURDAY, DEC. 2.—It was an ominous circumstance when two days ago Argentine bonds showed weakness that the ring, who had been industriously piling them up, circulated a rumour that they were bent on lifting them up to par. A gifted few concluded from this that they were bent on lifting them up to par. A gifted few concluded from this that they were bent on lifting them up to par. A gifted few concluded from this that they were bent on lifting them up to par. A gifted few concluded from this that they were dead of their tetilor, and closed. Those who remained behind saw the woole of their tetilor, and closed. Those who remained behind saw the woole of their tetilor, and closed. These was equal to 9 per cent. The loss of Bender, and away in less than a couple of hours. The 1885 Loan dropped sawy in less than a couple of hours, more prudent, declined the business, even when lo and 15 per cent. was offered. In liftle more than two months the 1835 Loan advanced from 28, to nearly 80, a rise unparallelled in the annals of the Stock Exchange. From such a gidy height a sharp reaction sooner or later was inevitable. There was every appearance of a further fall ensuing on Monday. For a Saturday an unusual amount of business, consisting nearly wholly of ales, was transacted. York A fell 1½ per cent., to 139½. Dover A declined to 111.

Monday—Business was done to day in Argentine of 1338 at 61½, but recovered to 54 against 57 yesterday. All the markets were sadly depressed, closing, however, slightly above the worst. The general feeling is that war is inevitable. Russian and flungarian bonds fell 1½ on the average. The 1873 issue of the former was done at 74%. A fall of 1½ took place in Egyptian 1873, to 48%, a change of nearly 6 per cent. from Tuesday last. Exchanger. 2 (24%; New Zerland Kapunga, 4½ to 44; Pestarena, ½ to 6; Richmond, 9½ to 9½; New Zerland Kapunga, 4½ to 44; Pestarena, ½ to 6; Richmond, 9½ to 9½; New Zerland Kapunga, 4½ to 144; Destarena, ½ to 6; Richmond, 9½ to 9½; New Zerland Kapunga, 4½ to

Registration of New Companies.

The following joint-stock companies have been duly registered: --The following joint-stock companies have been duly registered:—LOUGHOR COLLIERY COMPANY (Limited).—Capital 29,0004, in M. shares, To acquire the estate and interest of the Wain Colliery Company (Limited) in property at Loughor, Glamorgan. The subscribers (who take one share each) are—Archibald Douglas, Halliford House, Ealing, esquire; Henry Hodgson, jun., 8, Elgin-orescent, Notting Hill, gentleman; Richard Learmonth, Lavender Hill, no occupation; E. Hilton, Redfield, Loud's road, Clapham, no occupation; R. Oilverish, 11, Queen Victoria-street, secretary; Thomas Jewin, 3, King-street, Chcapside; J. E. Castello, 117, Cannon-street, secretary. The directors are—Messrs. Archibald Douglas, E. Hilton, and Thomas Jervis, the qualification being the holding of 50 shares.

Douglas, E. Hilton, and Thomas Jervis, the qualification being the holding of 50 shares.

BROADWELL COLLIERY AND LAND COMPANY (Limited). — Capital 12,0001., in 201. shares. To adopt an agreement made between Noah Parkes and Thomas Price, of Oldbury, of the one part, and Thomas Morris, of Streatham Common, for the acquisition of the Broadwell estate and colliery at Oldham. The subscribers (who take one share each) are—John Blake Cornwell, Southport, Lancashire, schoolmaster; John B. Fell, C.E., Southport; C.B. Barrow, M.D., Southport; E. B. Braddyle, Southport, cotton broker; Job Binley, C.E., Rastrick, York; A. Brook, Field House, Longwood, cotton waste dealer; Thomas Morris, Streatham Common, no occupation. The directors are—Dr. Barrow and Mesers. Job Binley, J. B. Cornwell, J. B. Fell, and Thomas Morris, the qualification being the holding of shares to the value of 2001.

JAMES FAIRBROTHER AND COMPANY (Limited).—Capital 15,0001., in 101. shares. This is a conversion of the business of the Grown Steel and Wire Mills carried on by Messes. Fairbrother at Sheffield. The subscribers (who take one share each) are—Joseph Needham, Asheroft, Broomhall, Sheffield; Arthur Lee, 12. Broomgrove-roat, Sheffield; J. N. Wing, Sheffield; James Dewsnap, Glossop road, Sheffield.

ISLE OF WIGHT CHEMICAL AND ARTIFICIAL MANURE COMPANY (Limited).—Capital 10,0001., in 5t. shares. To manufacture and deal in artificial manure. The subscribers (who take one share each) are—John Lode, Brading. Isle of Wight; G. H. Matthews, Shauklin; Alfred Graham, Shanklin; H. Cesil Grapes, Newport; John Marsden, Ryde; H. Lock, Shanklin; D. S. W. Dawe, Brading.

ST. PETERS, BLACKWATER, OYSTER FISHERY COMPANY (Limited).—

g.
PETERS, BLACKWATER, OYSTER FISHERY COMPANY (Limited).—
To establish and maintain an oyster fishery at capital 25,008°, in 8. shares. To establish and maintain an oyster fishery at Blackwater river, Essex. The subscribers (who teke 300 shares each) are—George Richardson, the Wycke, Burham; W. H. Bygrave, Woodham, Maldon; J. F. Kemp, Southminster; Robert G. Coombe, Burtham; J. H. Johnson, 47, Lincoln's Inn Fields; A. P. Price, 47, Lincoln's Inn Fields; C. T. Kemp, 8, Walbrook.

NEW PROFECTING SOCIETY.—This is an unlimited company, formed for the mutual insurance of ships belenging to its members. The subscribers reside at Sunderland.

inderland.
BIRMINGHAM AND DISTRICT LAND COMPANY (Limited).—Capital

BIRMINGHAM AND DISTRICT LAND COMPANY (Limited).—Capital 160,0000., in 50: shares. To carry on the general business of a land society. The first seven subscribers are—Frederick Madeley Oxbill Handsworth, Birmingham, 40; Thomas D. Hadley, King's Norton, 40; Edwin Ludlow, Bristol-road, Birmingham, 20; E. Feerne Grindey, Ferndale, Birmingham, 20; F. S. Fallow, Temple Bar, Birmingham, 20; John Deeley, High street, Birmingham, 5; Thomas Simpson, Waterloo-street, Birmingham.

PANEL WOOD PAYING COMPANY (Limited).—Capital 50,0001, in 61. shares. To adopt an agreement for the acquisition of Mr. Prosser's invention for improvements in the construction of roadways, tramways, &c. The subscribers (who take one share each) are—Robert B. Buth, Grove Villa, Fulham; E. Smith, 34, Old Broad-street; F. T. Lavi, e, Raven Villa, Hammersmith, accountant: Walter Squire, Peckham; W. Noberts, 17, Westbourne Park Villas; G. A. Lewis, 143, Walworth-road; Richard Almond, 22, Bedford-row; J. St. Quenton, 18, Brunswick-square.

Square.
NEWCASTLE-UPON-TYNE PERMANENT CIRCUS AND AGRICULTURAL NEW CASTLE-UPON-TYNE PERMANENT CIRCUS AND AGRICULTURAL NEW CASTLE-UPON-TYNE PERMANENT CIRCUS AND AGRICULTURAL HALL COMPANY (Limited).—Capital 25,0004. In 54 shares. To establish and construct a permanen, building for the purposes indicated by the title. The first seven subsorioers are—Thomas Resy, Reeds Chambers, Newessite, 19, John Irving, Newessite, 29. W. Parker, 6, James Arreet, Gatesheaf, 3; 6. H. Smith, Newessite, 40; James Willar, Percy-street, Newessite; James Elliot, Newessite. CENTRAL CHAMBERS RESTAURANT COMPANY (Limited).—Capital 10,000., in 10. shares. To establish refreshment rooms, &c., at Central Chambers, Liverpool. The subscribers are—C. Schmidt, 27, Redcros-street, Liverpool; C. Bradgate, 15, Alexandra street, Walton; John Robinson, 8, Elgin street, Birkenhead; W. R. Pearce, 3t, Claribel-street, Liverpool; R. Dette Lawson, 43, Lemanstreet; Thomas Woods, 14, Alexandra-street, Liverpool; H. Sturzenarker, 96,

street; Thomas Woods, 14, Alexandra-street, Liverpool; H. Sturzenarker, 96, Dale-street, Liverpool.
UNITED SERVICE SKATING RINK OOMPANY (Limited).—Capital 7000L., in It. shares. To establish a rink at Chatham.
FARNHAM GAS COMPANY (constituted by Deed of Settlement, 1943) is now incorporated as a limited company.

HYDRAULIC GOLD MINES OF CALIFORNIA.—The few days rain MYDIAULIC GOLD MINES OF CALIFORNIA.—The few days rain which has fallen since our last issue has further encouraged our miners, and they are now crowding the work of fitting up with all possible haste. The reservoir of the Cedar Creek Company, at Alta, is nearly full of water, with about 800 inches coming in. The Yaba ditch has now about 1000 inches of water running; as yet, however, but little of it has been utilised, as it is reserved for the Southern Cross claim. The Central claim, belonging to the Cedar Creek Company, commenced washing on Saturday last, and is now running day and night. This is the pioneer claim for this season in this district.—Dutch Fiat Forum.

HOLLOW YN BULLS.—The daily whiteneds woods with read district and its property of the control o elaim. In washing on San for this

claim for this season in this district.—Dutch Flat Forum.

HOLLOWAY'S PILLS.—The daily oblituaries record with sad distinctness how many the trying weather of the last few weeks has laid in the churchyard, who might still have been a blessing to their families if they had, when the symptoms first discovered themselves, by some such means as these famons pills, kept the blood pure, the stomach sound, the liver active, and the bowels regular. Mild, wet winters, always press with a heavy hand on the aged and the infirm, who constantly require some balsamic tonic, like Holloway's pills, to sharpen their appetite and to maintain their strength. The pills cannot work wrongly nor will they weaken unnecessarily, while by their parifying and preservative virtues they will rescue perishing lives.

With this week's Journal a SUPPLEMENT'S SHEET is given, which contains: Original Correspondence: Mining in Colorado, South Park—No. III. (Charles S. Richardson); Mining in Colorado; Mining in the East No. X. Nevada Minines—Depreciation of Silver, &c.; Mining in New South Wales; Exchequer Gold and Silver Mining Company (A. Joy); Foreign and Home Mining—Coal Working—"Billy Fair-Play;" Iron Ore; Lead Mining in the Isle of Man: Glenroy Mine, Isle of Man (C. Ainsworth); the Pneumatic Stamps; Free Trade, and Copper (R. Tredinnick); the Present Opportunities for Investors in Mining Properties (G. Budge); Mine Agents; Wheal Grenville (J. Watson); Devon Great Consols Meeting; Devon Consols, and the Arsenic Trade; South Condurrow Mining Company; Tankerville Mining Company; White Cliff Lead Mine; Lord Mayor's Court, Etherington W. Ward—The Exhaustion of Our Coal Fields—The Coal Trade—Foreign Mining and Metallurgy—The Utilisation of Coal Dust—Cotton Powder—Hydraulic Propulsion of Tramway Cars—Miners' Safety Cages—Manulacture of Iron and Steel—Treatment of Metallic Ores—Patent Matters—Meetings of Bodidris, West Godolphin, Great Snaefel, West Assheton, West Goginan, Parys Mountain, Tolima, West Wye Valley, and Gauley-Kanawha, Companies, &c.

TO THE METAL TRADE.

FOR COPPER, TIN, LEAD, &c., apply to-MESSES, PELLY, POYLE, AND CO., SWORN METAL BROKERS, ALLHALLOWS CHAMBERS, LOMBARD STREET, LONDON. (ESTABLISHED 1849.)

The Mining Market: Brices of Metals, Ores, &c.

	TIX. & s. d. & s. d
IRON. £ s. d. £ s.	
Pig, emb, f.o.b., Clyde 2 18 3-	
, Scotch, al No. 1 8 1 0- 3 11	
Bars, Welsh, fo.b. Wales 6 5 0- 6 7	Australian
" Stifford., ,, .8 0 0-10 0	Straits 77 0 0
in Tyne or Tees 6 0 0 Swedish, London 10 10 0-11 0	
Rills, Welsh, at works. 5 7 6- 5 10	COPPER,
Railway chairs	Tough cake and ingot. 82 0 0- 83 0 0
spikes	Best selected 84 0 0- 85 0 0
Sheets, Staff., in London 9 15 0-	Sheets and sheathing. 87 0 0-88 0 0
Plates, Staff., in London 9 10 0-	Flat Bottoms
Hoops, Staff 8 15 0	Burra, or P.C.C 85 0 0-
Nail rods, Staff. in Lon. 7 15 0- 8 0	Other brands 82 0 0- 83 0 0
STEEL.	Chili bars, g.o.b 75 15 0-
English, spring 14 0 0-23 0	
,, cast	
Swedish, keg	Bearing metal £112 0 0
fag. ham17 10 0	Other alloys £120 0 0- 140 0 0
LEAD.	BRASS.
	Wire 9½d. 9½d.
T. D. 99 10 0-	Tubes 914
W D 69 = 0-	Sheets 834 -914
shoot and han 92 0 0-	Yel, met, sheath, & sheets, 714 - 814
nine 99 10 0-	Nails composition 9 - 934
red23 1) 0-24 0	
white28 0 0-29 10	TIN PLATES.* per box.
pitent shot24 15 0-25 0	O Charcoal, 1st quality 1 4 5- 1 5 5
Spanish22 0 0	,, 2nd quality 1 3 0- 1 4 0
QUICKSILVER.	Coke, 1st quality 1 1 0
Flasks of 75 lbs., ware. 8 5 0- 8 10	, 2nd quality 0 19 6- 1 0 0
SPELTER.	Canada, Staff. or Gla., 13 0 0- 13 10 0
Silesian or Rhenish 22 10 0	at Liverpoor
English, Swansea 23 10 0	Black Taggers, 450 of 30 0 0-
Sheet zinc 26 10 0- 27 0	0 14 × 10

At the works, 1s. to 1s. 6d. per box less for ordinary; 10s. per ton less for nada; IX 6s. per box more than IC quoted above, and add 6s. for each X, rne-plates 2s. per box below tin-plates of similar brands.

*At the works, 1s, to 1s, 6d, per box less for ordinary; 10s, per ton less for Canada; IX &s, per box more than IC quoted above, and add &s for each X. Terne-plates 2s, per box below tin-plates of similar brands.

REMARKS.—In the month of December there is generally an increased demand for the ordinary wants of daily life; but, beyond articles of consumption and clothing, and a few other indispensables, trade at this season of the year is not particularly active, and metals form no exception to the rule, and this month this year will probably prove less favourable than usual, as the greater part of it will doubtless be taken up by matters of a very different kind claiming prior attention. In the first place, the public mind during the next fortnight, at least, will be almost entirely absorbed with the plans and discussions of the Conference, and as long as the sittings are continued our markets, in common with others, will be kept in a feverish state of excitement. Every scrap of information will be eagerly sought after, and made the most of, either for elevating or depressing prices, and it is as well for holders to be fully alive to the immense risks they are r. nn. ng., and the dangers to which they may be exposed, in the event of the Conference proving a fillure and a ruinous war ensuing. There are some, however, who imagine that if war be declared that it would be strictly confined to the Turkish possessions, and that, consequently, no harm could happen to us at this distance from the scene of action; but only to a certain extent are they right, for, even a lowing the amount of business with Eastern Europe to be of comparatively slight consideration, yet a war between Russia and Turkey would not only affect our commerce so far as those countries are concerned, but also every other inhabitable part of the world more or less, and, as a matter of course, it necessarily follows that, if trade is restricted, it is almost impossible for prices to improve.

To assume that the war would be exclusively between Russ

metal market, especially as a reserved with the continuous and the next two will be lest over the Conference, and the fourth and last spent in holidays, and thus will end the very disastrous year of 1876.

COPPER.—Last week ended without any manifestation of improvement in this metal, and buyers would not exceed 761. for g.o.b's. On Monday the market remained in much about the same languid condition. Burra Burra was offering at 841. 15s. The appearance of the market was rather unsatisfactory, as there seemed to be so little doing in regular bu-iness, and speculation was decidedly dumped, and the only way to effect sales was to submit to lower rates than those currently quoted. Whenever the tone of the market is so extremely low it is an unfavourable symptom of declining prices, and as there are a great many prompts falling due this and next month buyers will probably hold back for a time in expectation of buying a little cheaper. On Tuesday quite a gloom was cast over the market by the announcement of charters for the last haif of November being about 30-0 tons, consisting of 500 tons of bars, about 1200 tons of ores and regulas for England, 500 tons of bars for the Continent, and a fall of 2% per cent, was also tele, raphed from Valparaiso, but other telegrams did not confirm this declension. These heavy charters take all courage out of holders, and are calculated to produce a very depressing effect; the course of the market may, therefore, now be considered doubtful, as the statistical position will be quite sufficient in itself to prevent any advance taking place unless by means of speculation.

It matters not whether peace or war ensues, the market no longer hinges upon that question, as it is already too heavily weighted, and can never rise on its own merits while supplies are so excessive. It is very unfortunate for those who are so deeply interested in maintaining prices that the market should have given way, but it cannot be helped, and if circumstances are altered it is no use to attempt to bolster up

into be helped, and if circumstances are altered it is no use to attempt to a decaying market; and, should stocks go on increasing, and charters have, and prices in Valparaiso decline, prices here must also follow in track, and before any impression can be made upon the Chili supplies it track, and before any impression can be made upon the Chili supplies it upon in necessary once more to drop the price again to 70%. There is but one by which prices are governed—that of "supply and demand"—and just supply is excessive, and the demand limited.

Attorned to the prices are governed—that of "supply and demand"—and just earlier to leave talone that it may reach its proper level, and then a movement can be an a sound basis; but to act prematurely simply invites failure, for conserved by the market was no better than on either of the previous days, and effected at 7M. 15s., both for cash and three months prompt. The fall & in the standard at the Swansea ticketings on the previous days helped the depression. Another sale is amounced for the 19th inst. The decline two sales is evidence of the state of the market, and clearly shows that no keen competition amongst smelters for furnace material. Indian & 4, can be bought at 57%, but are difficult of sale owing to the famine and the market opened doubtfully, and there were selling limits as low as but in course of early "Change buyers exhibited a more sungaine dison, and 76%, 15s. was realised for 25 tons Lota, and 74% for g.o.b. prompt a quiet appearance, and a further small sale has been effected, at cash.

—The amount of business doing is still very limited, although hough.

The amount of business doing is still very limited, although some few orders have been given out for merchant bars and nail rods. The demand is chiefly upon these two kinds of iron, but the quan-

tity required is not so much as to justify the increased prices that are being asked by some sellers, but the works have been accustomed to idleness so long that a little improvement is soon exaggerated into one of importance. There are some makers who never will learn wisdom, and upon whom experience is thrown away, yet the time that has elapsed since the last fatal mistake was made of advancing rates with such indiscretion is so short that it might be thought more care and judgment would have been exercised in the regulation of present prices, but it appears otherwise, and no sooner do the least signs of recovery begin to be manifest that these voracious sellers, eager to procure an advantage, immediately raise their prices, and in so doing force buyers to take their orders elsewhere. It is quite certain that it is folly to look for any permanent rise yet awhile in prices. At this time of the year especially iron generally is not much in demand, and, therefore, any improvement there may be just now may be looked upon as merely temporary: and, further than this, it is perfectly clear that prices cannot be upheld on this side while we are being so completely undersold in Belgium. It is not only an inconvenience, but a truly public grievance, when the trade is subject to this arbitrary sort of treatment, and however ironmasters can expect that the former flow of orders will ever return to them when they act in this kind of way is a mystery which even they would find it difficult to solve. One thing is so far fortunate—that the majority of makers have not yet moved their prices; the movement is conflued to a few whose brands have gained some degree of notoriety, and in whose rates some reaction may quickly follow. Rails have been in slightly better request, and it is estimated that orders for about 20,000 tons have been placed in Wales during the past mount: prices are a shade firmer, sellers now wanting \$\mathcal{S}\$. 168.4. dash. The stock in store is 98,197 tons, being an increase of 2073 tons, with warrants i

SHIPMENTS.	
Week ending Dec. 4, 1875	9,786 7,880
Decrease	1,966 71,959
Imports of Middlesborough pig-iron into Grangemouth:— Week ending Dec. 2, 1878	
Increase Total increase for 18;6	3,559

LEAD.—In ordinary English makes the price has receded 5s per ton, but for noted brands prices remain much about the same as before. The demand for home consumption is dull at this time of

before. The demand for home consumption is dull at this time of the year, and sellers do not anticipate any improvement before the beginning of the ensuing year. Spanish pig has realised 22t.

SPELTER.—This market has been very quiet, and the value gradually receding. It the beginning of the week Silesian was quoted 22t. 7s. 6d. to 22t. 10s. Or. Wednesday a sale of 25 tons s.s brand was reported at 23t., but Silesian was quoted down to 22t. 5s. At the public sele yesterday 115 tons of English zinc realised 25t. 15s., which is 5s. per ton lower than the sele of the 23d ult.

STEEL is without change.

QUICKSILYER.—Importers still adhere to 8t. 10s., but the market is not clear of second-hand lots, which can be bought at a slightly lower rate.

TIN-PLATES. -There is not much alteration in the general state of

TIN-PLATES,—There is not much alteration in the general state of the market, and makers are still willing to book orders at previous quotations. The prices are comparatively low, and ruling in buyers' favour, at the same time they do not exhibit any particular eagerness to avail themselves of the advantage.

TIN.—At the termination of business last week prices were nominal, and at the beginning of this week transactions were reported in Straits at 77l. cash and for January (March prompts), and for arrival 76l, 10s.; a small lot of Australian at 75l, 10s. cash. On arrival 76%, 10s.; a small lot of Australian at 75%, 10s. cash. On Tuesday the market was inanimate, and the quotation for Straits was 76% to 77%, the former price being for the taken middle of February prompt, and the latter also for the same month and for December; January shipment, 76%, 15s., and Australian, 76%. On Wednesday there was not quite such good prices realised; 30 tons of Straits were reported at 75%, 10s. to 76%, 10s. for January, and 76%, for March, and 74%, 15s. for December, January shipment. Australian, 75%, for both spot and arrival. On Thursday there was a change for the better, and Straits were firm at 76%, to 75% to 5 for cash and forward. In Australian a large quantity was sold at 75% to 75%. 10s. for cash and forward; the bulk of the business was reported at the lower figure. To-day the improvement has continued, and a satisfactory advance has taken place, Straits being 17%, and Australian 72%, closing firm, sellers demanding higher rates.

Messrs. French and Smith.—Copper: The market was quiet throughout the past month, and values have been in favour of buyers. Charters from the West Coast were advised for the first fortnight of November as 1900 tone; second ditto, 3000 tons. We quote Chili bars, 76f.; Wailaroo, 85f, 10s.; Burra, 84f. 10s.; tough, 82f.; mandactured, 57f. to 90f.; ore and regulus, 15s. to 15s. 6d.—Tix was largely dealt in, and a rise of 5f. ser ton resliced during the past month. On the 29th ult. the Dutch Trading Company held their last sale of this year, when 29,911 slabs Banca realised the average price of 16f-90f. equal to about 79f. laid down here. At the same time 3510 slabs Biltion sold at 45f-90f., equal to about 79f. laid down here. These prices were considered satisfactory, and seemed confirmatory of the late rise here, but at the same time telegrams advising considerable shipments of Australian came to hand, and buyers immediately withdrew, in the expectation of buying at lower rates. Large parce's have since changed hands at 7ff. down to 75f. Straits is comparatively scarce.

lower rates. Large parcels have since changed hands at 77. down to 73. Straits is comparatively scarce.

Messrs. FRY, JAMES, and CO.—COPPER has been slow of sale, and although holders have been mostly firm, there is a generally acknowledged decline in values of from 10s. to 20s. per ton on raw copper, and even more than that on manufactured for export. The stocks at the close of the last month show but very slight change.—LROY has receded in value of Scotch pig, and is without change in other respects. —Try has been more freely offered, and values have declined from 20s. to 40s. per ton from the highest. —LEAD has been slow of sale, and prices are rather easier for pig. —SPELIER is quiet, and follows the general market in being easier to buy.

Messrs. RICHARDSON & CO. (Swansea).—The stocks of Chilicopper represent about 4550 tons fine. Private sales of ores and regulus have taken plue to a considerable extent during the past month at from 15s. 5d. to 15s. per unit—a goodly portion to arrive. The charters from the West Coast since our last advices are—For the last half of October, 700 tons bars and ingots and 500 tons furnice material for England, and 1600 tons bars and ingots for France. For the list half of November, 950 tons bars and ingots and 900 tons furnace material for England, and 50 tons bars and ingots and 900 tons furnace material for England, and 50 tons bars and ingots for France. The stocks of metal in England are very molerate, but they are heavier in France than they have been since February, 1971. The shipments from the West Coast up to Oct. 30, for the past four years, have been—1573, 53:00 tons: 1574, 33:929 tons; 1875, 39:940 tons; 1876, 42:500 tons, showing a steady increase, but it is counteracted by our increased consumption and demand.

The MINNING SHARE MARKET is in a very unsettled state. A

1874, 38,929 tons; 1875, 39,40 tons; 1876, 42,500 tons, showing a steady increase, but it is counteracted by our increased consumption and demand.

The MINING SHARE MARKET is in a very unsettled state. A week or two ago there was a rise in the standards for tin ores, a great advance in tin mines, and a better feeling in the market generally. All at once this week the smelters have put down the standard 3l. per ton, and the con-equence is a fall in tin shares, and very gene all depression. The ups and downs of the tin standard (still thought by many to be regulated entirely by a monopoly of buyers, who would thus seem to get the miners' ore at their own prices) is causing shares to fluctuate as much as foreign bonds, and some action on the part of the miners themselves is requisite to counteract these influences. A plan was suggested some years ago in the Journal for remedying the evil.

TIN MINES have been very depressed. Carn Breas are 40 to 42½. Tincroft, 20 to 22, nominally. The accounts of these two mines are creating much comment, and no little uneasiness. It is many years now since attention was first called to the costs kept back, and the matter has since been kept constuntly before the readers of the Journal. Dolcoath, 40 to 42½; Penstruthal, 9s. to 11s.; South Condurrow, 7 to 7½; Wheal Grenville. 22s. 6d. to 27s. 6d. At the Providence Mines meeting in Cornwall the accounts showed a loss of 735d. on four months' working, and a call of 1l. 10s, per share was made. The costs for four months amounted to 2253l. Cred ts for tin sold, 1433l. The mine formerly so rich has paid upwards of 110,000l. in dividends to the shareholders, but the great fall in tin having of late ne essisted several calls many shareholders have relinquished their interests. Relittian Consols, \$\frac{1}{2}\$ to \$\frac{3}{2}\$.

In COPPER MINES business has been done in Parys Mountain at 11s. to 13s.; at the meeting (paticulars of which will be found in another column) the accounts, together with directors' and agent's

Ils. to 13s.; at the meeting (particulars of which will be found in another column) the accounts, together with directors' and agent's reports, were unanimously adopted and passed. To show the importance of the 90 cross cut south, towards the great open-cast, the agent attended with plans and sections, from which it would appear that there are four known lodes ahead of it, and the first very near at hand; all these four lodes have been cut at the 45 fm. level further east, and were all very productive from that level upwards; they will now be cut 45 fms. deeper, and in whole ground to surface. The 90 east, at Carrogydol, is opening up more ore ground. The pre-

The 90 east, at Carrogydol, is opening up more ore ground. The present returns of copper are about 200 tons per month, and a rise of 1L per ton would turn the present loss into a profit, without regard to the discovery that may shortly be made at the 90 crosscut south. Marke Valley, 1½ to 1½; Prince of Wales, 3s. to 4s. South Caradon, 115 to 125; a handsome testimonial was presented last week to Mr. Kittow, the purser of this mine from its commencement 40 years ago, until very lately. During the proceedlately. During the proceedings it was stated that upon a capital of 640L this mine had paid 374,272L in dividends to the shareholders, and 100,000L in dues to the hards. Denon Great Consols, 4½ to 4½;

the sampling for this month is 860 tons of copper ores; and the mines continue to look well. Cathedral, 20s. to 30s. Wheal Crebor,

mines continue to look well. Cathedral, 20s. to 30s. Wheal Crobor, 2 to 2½.

With regard to Lead Mines, Tankerville has declined from 9½ to 8½, 9; the accounts for six months, just issued, show: Lead ores sold from April to October, 11,052/. 16s. 3d.; costs from March to August inclusive, 7469/. 12s. 8d.; profit, 3583/. 8s. 7d., to this must be added the balance brought forward of 5393/. 16s. 5d., and deducting two dividends of 5s. per share, paid in May and August (6000/.), leaves a balance now carried forward of 2977/. 12s. 11d. The report of the mine states that the great lode has been opened upon in the 180 west 5 fms. in length, and driving commenced in a lode worth 30/. Per fathom. The sampling on Nov. 30 was 150 tons of lead ores. Roman Gravels have been more dealt in at 13½ to 14½; the mine in the 106, the 95, 80, and 65 levels, the agent states, is opening out in a most satisfactory way. Van. 36 to 37; East Van have advanced to 8½, 8½; Van Consols, 1½ to 2; Glyn, 2½ to 2½; Gerat Laxey, 19½ to 20½; Glerny, 1½ to 2½. North Laxey, 10s. to 12s. 6d.; sinking the engine-shaft below the 130 was commenced on Monday. West Tankerville, 1½ to 1½; the sampling here is 35 tons of lead ore for the month. Combmartia, 3½ to 4½. Ladywell, 1¼ to 1½; Pennant, 5½ to 6; Pennerley, 1½ to 1½; Llanwarst, 2 to 2½; West Assheton, 1½ to 1½; West Chiverton, 18 to 19; West Craven Moor, 12½ to 13½.

Rookhope are in demand at 16s. to 18s.; the telegram from the secretary, published in this article in May last, and lately referred to by one or two correspondents of the Journal, certainly led shareholders to expect earlier results. But we are assured, and plans and reports have been placed before us in support of the statement, that the delay in the anticipated returns have not been from any falling off in the value and prospects of the mine, but simply from a want of drawing and and dressing power, which will be remedied to by one or two correspondents of the Journal, certainly led shareholders to expect earlier results. But we are a With regard to LEAD MINES, Tankerville has declined from 9½ to With regard to LEAD MINES, Tankerville has declined from 9½ to With regard to LEAD MINES, Tankerville has declined from 9½ to With regard to LEAD MINES, Tankerville has declined from 9½ to 2½.

over, from the known capacities of the mine. Bytine, 4 to 4\frac{1}{2}; the four bottom levels are worth on the aggregate 70l. to 75l. per fm, Clementina, 35 to 45; in sinking below the 25, lead ore is coming into the shaft. The 25 end south is worth 10 cwts. of lead ore per fathom. Bodidris, 1 to 1\frac{1}{2}. Leadhills, 6\frac{1}{2} to 7; the sale of lead ore (300 tons) realised—100 tons, 14l, 16s. 6d. per ton; 200 tons, 14l, 16s. 6d per ton.

In Foreign Mines Cape Capper are quoted 39 to 40; the disease.

147. 168. 6d per ton.

In Foreign Mines, Cape Copper are quoted 39 to 40; the directors here have declared a dividend of 17. per share. Chontales, 65 obs.; Eberhardt and Aurora, 8 to 8½; Exchequer, 1½ to 2½; Frontino and Bolivia, 1½ to 1½; Javali, 10s. to 13s; New Zealand Kapanga, 4½ to 5; Blue Tent, 3 to 3½; New Quebrada, 3½ to 4; Pestarena, 4s. to 6s; Richmond. 9 to 9½; St. John del Rey, 325 to 335; Santa Barbara, 2½ to 2½; Condes of Chiti, 5 to 3½; 55 tons of ore have been shipped by the Gallicia, estimated at 20% per ton, and 475 tons are in transit between the mines and the port. The lode in the bottom of the Isolira is valued at 100%, per fathom. Argentine, 6 to 6½; the new shaft has been communicated with the bottom of the 44 fm. level, in the Piqué Mine. 44 fm, level, in the Piqué Mine.

The Market for Mine Shares on the Stock Exchange during the The Market for Mine Shares on the Stock Exchange during the week has participated in the inactivity of other markets. Improved business and better prices may be looked for with a revival in the trade of the country, which appears probable, if fair reliance can be placed on the reports from the manufacturing and mining districts. Raw materials are in many cases improving in value, thus indicating that the manufactured article is in more domand. The Ballot-Tontine system of managing public companies to the advantage of which is

paced on the reports rout the manufacturing and mining districts. Raw materials are in many cases improving in value, thus indicating that the manufactured article is in more demand. The Ballot-Tontine system of managing public companies, to the advantage of which in protecting investors and capitalists reference was made last week, is fully explained in another column of this day's Journal. It is beyond question that had this principle been understood and acted upon during the past few years the majority of the concerns which have proved so disastrous to capitalists could have had no existence. Investors should in every case demand the protection which such systems as this offer before parting with their money.

The Gold (Welsh) Company remind their shareholders of a fact that has constantly been repeated in the Mining Journal during the last 20 years, that it has been ascertained from the working of the Clogau Mine that the Welsh gold is in combination with certain other minerals, which has hitherto prevented the quicksilver taking up more than a small quantity of the gold (the other portion being lost), rendering a peculiar method of treatment necessary. The sodium and various other processes were tried, and failed, but it said that, judging from the experiments recently made, it is at last in a fair way of being discovered. It appears the lode from which the rich visible gold was formerly taken had been lost in the sinking of the shaft, and an offer has been made that for a certain sum to be expended in the necessary works, one of the original lessess would be able to find this lode. Cross-cuts were put out and the lode reached, 8 to 10 ft. wide, containing visible gold, one part containing arsenical pyrites, rich in the precious metal. A furnace and other suitable apparatus for calcining and otherwise treating the ore are about to be provided. The successful carrying out of these works would be regarded with much interest, and many believe that the works now going on at Clogau will soon prove that gold min

pected when the ground is laid open for stoping.

Pontgihaud, 16 to 18, ex div.; at the meeting in Paris, on Nov. 30, the dividend for the year 1875-6 was fixed at 60 francs per share; of this 20 francs were paid as interim dividend in June, and Messs. John Taylor and Sons, the London agents, have given notice that the balance, equal to 11. Its. 1d., after allowing French tax and exchange, but subject to income tax, may be received at the agency in Queenstreet-place. This payment will make 2l. 6s. 11d. per share for the year, being 113 per cent, unon that the naid-un capital and about

but subject to income tax, may be received at the agency in queen-street-place. This payment will make 2t 6s. 11d. per share for the year, being 113 per cent. upon the the paid-up capital, and about 14 per cent. on the market price of the shares.

St. John del Rey, 325 to 335; the latest telegram from Rio gives the produce for the second division of November (twelve days) at 14,250 oits., worth 5522t, the ley of the ore being 69 oits, per ton. A dividend of 20 per cent, for the half-year will be declared at the forthcoming meeting. A communication received from a Brazilian correspondent, and published in another column, states that the Minas Geraes Assembles has imposed a tax of 4 per cent, on the gross amount of gold extracted from the mines in the district. It is generally felt that the tax is impolitic, and likely to lead to the shutting up of many of the less prosperous mines; it would also make an important difference to St. John del Rey, so much, indeed, that Mr. Gordon had gone specially to Ouro Preto to discuss the matter with Gordon had gone specially to Ouro Preto to discuss the matter with the President. It is cordially to be hoped that the representations the President. It is cordially to be hoped that the representations of Mr. Gordon, who has, of course, enormous influence in Minas Geraes, will be availing, as the tax can scarcely fail to prove of an appropriate the second scarce of the se much permanent injury to the province itself as to the English com-

panies working there.

Argentine, 6 to 6½; the new shaft at the Piqué has, according to the reports received, been holed to the bottom of the mine. The fixing of the pitwork and drawing-machine will now soon be seen that the pitwork are the pitwork and the pitwork are t fixing of the pitwork and drawing-machine will now soon be a complished, when sufficient water will be drawn from the botto workings to enable the reduction works to be carried on to advanworkings to enable the reduction works to be carried on to advantage, and also to draw the ores from the rich deposit in the bottom of the mine, as the sinking of the shaft on the course of the lose under the 44 will be proceeded with as rapidly as possible. This lode is worth for gold about 700%, per fathom. The other parts of the mine are opening up well. Condes of Chili, 5 to $5\frac{1}{2}$; a telegram has been received from the company's manager in Chili that he had shipped 55 tons of ore per steamer, worth 20% per ton, and stating shipped 55 tons of ore per steamer, worth 20% per ton, and stating that in a fortnight's time he would ship 150 tons, and that he a's had 325 tons in transitu between the mines and Santisgo. Advices have been regional to-hyt'a the lode at the bottom of the shaftis

por is i ma Rul ning com leve at t

wo 120

exte ous Was ing, tory rega date

out a

repo will

to 37 shaft other blend wide on the danoth lated. maki

whiel Rec The n

cess o good of the been a Harm Gogir the m been s that the ins gr of the I to I; Bwich directi

10, hav wide,

Posit o Lumb

At We unchar every change next w Subj Asshet Dolcoatt Great L Down,

Collianything seeming as effect Proveme

goth 100. per fathom, and much of the ore was valued at over 130 ozo of silver to the ton.

Richmond, 9 to 9½; the telegram received states the week's run at \$30,000. The refinery produced in the week dor's bars to the value of \$25,000. The manager reports that a tope was commenced between the 700 and 800 it, levels, and the ore being worked is of good quality. The 700 and 800 it, levels, not have one of the produced of the pr

in

the the

nich ink-

and

gold

v. 30,

at the

about

at the

at the

utting at Mr. r with

ations

Minas of as

ing to

he ac-

bottom advan-bottom

This

legram he had stating

direction.

Pateley Bridge, 2½ to 3; the workings on the Lumb vein, in the 10, have been suspended, owing to the refusal of the men to take the bargains at the price offered. The Rake vein, on the 30, is 6ft. wide, very promising, and the end approaching under the rich deposit of ore left by the last workers. The 20 cross-cut towards the lumb vein is being steadily pu-hed on. No other change reported. At West Pateley, the north-west end at the 56, on Craven Cross vein, is presenting favourable indications for a speedy improvement. The stope east of No. 2 shaft is worth 1 ton per fathom. Other parts unchanged. Pennerley, 1 to 1½; the 130, east on Big Ore lode, has further improved, and is worth 1 ton of lead ore per fathom, with every prospect of a future improvement. Other points without change. The company have sampled 60 tons of lead ore, for sale next week.

change. The company have sampled 60 tons of lead ore, for sale next week.

Subjoined are the closing quotations:—

Assheton, 1 to 1½; Carn Brea, 40 to 43; Devon Great Consols, 4½ to 4½; Docoath, 40 to 42; East Caradon, 1 to 1½; East Van, 8 to 8½; Glyn, 2½ to 2½; Great Lixey, 20 to 42; East Caradon, 1 to 1½; East Van, 8 to 8½; Glyn, 2½ to 2½; Great Lixey, 20 to 21; Great Vor, ½ to 3½; Great West Van, 3½ to 5½; Hingston Down, ½ to 1½; Leadhills, 6½ to 7; Marke Valley, 1½ to 1½; Parys Mountain, ½ to ½; Particley Bridge, 2½ to 3; Pennerley, 1 to 1½; Penstruthal, 3½ to 5½; Monnan Gravela, 13½ to 14; Tankeville, 8½ to 9; Timordi; 20 to 22; Van, 38½, o 3½; Van Consols, 1½ to 2; West Assheton, 1½ to 1½; West Basset, 4½ to 5; West Chieveton, 18 to 19; West Anskerville, 1½ to 1½; West Cheveton, 18 to 19; West Anskerville, 1½ to 1½; West Cheveton, 18 to 19; West Anskerville, 1½ to 1½; West Cheveton, 18 to 19; West Anskerville, 1½ to 1½; West Cheveton, 18 to 19; West Chieveton, 18 to 10; West Tankerville, 1½ to 1½; Strasey Greek, ¾ to ½; Cape Copper, 38 to 40; Cectar Greek, ¾ to ½; Cape Copper, 38 to 40; Cectar Greek, ¾ to ½; Strase Copper, 38 to 40; Cectar Greek, ¾ to ½; Strase Copper, 38 to 40; Cectar Greek, ¼ to ½; Strase Copper, 38 to 40; Cectar Greek, ¼ to ½; Strase Copper, 38 to 36; Estarena, ½ to 36; Estarena, ½ to 36; Estarena, ½ to 36; Pestarena, ½ to 36; Pestarena,

Colliers.—Dealings in these, as in all other shares, have been anything but numerous, the excessively wet and depressing weather seeming to have the effect of damping the spirits of investors almost as effectually as it damps the investors themselves. Signs of improvement in the coal and iron trades may readily be seen by those who study the matter at all, and those who do not study it will, no doubt awake to the fact soon or later, and will then mourn the lost opportunities of investing in good concerns at a low price. We hear from Alltani that, though the weather sail occur in its completion. The company is now in a position to increase its out-

put as soon as the new engines are erected. The shares are at 5 to 5½. Llay Ha II, 9½ to 10; the drivings into the main coal are reported as making good progress, the thickness of the seam being well maintained, and no dirt partings or faults have been, so far, noticed. The permanent workshops and other buildings are in satisfactory progress of erection. Our report from Chapel House is as favourable as usual. The new works are being pushed on with all speed, and the demand for the company's coal continues to exceed the supply. Prices in the district have risen, and the tendency is still upwards. The shares are quoted at 3 to 3½, but very few have changed hands, holders and would-be purchasers probably waiting for the holding of the general meeting, which we hear is to take place during the present month. Thorp's Gawber are weak at 2½ to 2½; we understand that the colliery is looking well, and only a rise in the prices of coal is necessary to enable it to do well. The droop in the prices of the shares arises and interesting the present month. Thorp's Gawber are weak at 2½ to 2½; we understand that the colliery is looking well, and only a rise in the prices of coal is necessary to enable it to do well. The droop in the prices of the shares arises and the prices of the shares arise and the same of the preference of shares not having been as readily subscribed for as was anticipated. Pelsall Coal and Iron are at 8 to 9, and are raining in consequence of a determination of the shareholders to develope a new class of business—that in the finished iron trade. New Sharlstons are firm at 4 to 4½, and there is a scarcity of the shares. In West Mostyn there is no business. It may be well to remind our readers that the guarantee for interest in this company expires on Jan. I next. The preference shares are quoted nominally at 2½ to 3½. Bilsons are at 7½ to 5½. Newport Abercarn, 4½ to 5½. Cardiff and Swansea firmer at 1½ to 1½. Aldridge, 4 to 6 prem. Cannock wimblebury, 11. Hamstead, 9. Ivy House, 10. Fandwell Park, 24. Spo

Cannock, 19½.

At Redruth Ticketing, on Thursday, 1544 tons of copper ore were sold, realising 7108L11s. The particulars of the sale were—Average standard, 102L 1s.; average produce, 7½; average price per ton, 4L 12s.; quantity of fine copper, 111 tons 5 cwts. The following are the particulars:—

Date. Tons. Standard. Produce. Per ton. Per unit. Ore copper. Nov. 2. 1165£106 17 0 7½£5 2 6 13s. 11d.£29 12 0 25 3134 105 19 0 7½£1 5 0 13 7 67 18 0 Dec. 7. 1544 102 1 0 7½ 4 12 0 12 9½ 63 18 0 Compared with the last sale, the decline has been in the standard 3L 18s., and in the price per ton of ore about 6s. 31. 18s., and in the price per ton of ore about 6s.

be offered for sale 1274 tons, from the Betts Cove, Union, Cronebane Tigrony, and elsewhere.

The TAN-Y-BWLCH MINE sold this week 100 tons of lead ore, at 151. 10s. per ton, making a total of 1550l. The copper and blende are not included in this sale. The vein has been cut in the 90 cross-cut, and the sump and the cross-cut have been communicated. The vein is richer than it has been at any time during the sinking, and there is no doubt of the 90 opening up splendidly. The 70 west has come into some nice lead and copper, and there is every likelihood of further improvement as the level is advanced.

ROOKHOPE.—The 42 fathom level is driven beyond the first rich winze, and within 8 fathoms of being direct under the Gin shaft winze, and within 8 fathoms of being direct under the Gin shaft. The end is better for ore than at any time before in this level, which, it must be remembered, is being driven below the productive sill. In rising between the 42 and 25 fm. levels good ore ground is expected to be opened, and this rise will be commenced in a few weeks. The ore ground in the upper levels looks well. By the end of February the returns are expected to be increased to 40 or 50 tons per month, and in the meantime there will be 20 to 25 tons monthly. As the ground between the 25 and 42 is cut out, and particularly where the richest winze below the former level is, considerably larger returns may be looked for, and that at no distant date.

larger returns may be looked for, and that at no distant date.

DERWENT LEAD MINE.—This important property continues to progress in a satisfactory manner. The ore lately met with in the 70 cross-cut appears to be only a branch, valued at 16 cwts. of rich ore per fathom, a strong indication of the Sun vein proving rich in the little limestone, where it is daily expected to be cut. The middle vein is looking better at the furthest point eastward, and if the stopes in the back are as good as they extend east (as there is every prospect they will be) the returns will be considerably augmented from this source alone. The mine throughout is opening well, and will be one of the most valuable lead mines in the ing well, and will be one of the most valuable lead mines in country in a short time.

TANKERVILLE.—They are raising good piles of rich ore, principally from the bottom. About 60 tons have been raised, dressed, and put in the bin during this week. There were sold on Thursday 150 tons of lead ore at 16%, 3s. 64, per ton, realising 2426%, 5s.

GREAT DYLIFFE has much improved in the bottom levels, which augurs well for the future prospects and returns of lead ore. The different ends are worth in the aggregate 70l. to 75l. per fathom, as may be seen from the manager's report in another column. The shares, at 4l. 10s. to 4l. 15s., may be considered a good investment.

THE SILVER MARKET.—The price of silver last quoted—56d.—
is an encouraging matter for all the great silver-producing companies, being an advance of 8d, per 1 oz. on the price ruling last
May, the two quotations constituting a difference of about 20,000%
on the yearly produce in silver of the Richmond Mine.

on the yearly produce in silver of the Richmond Mine.

The Rio Tinto Company have announced the numbers of the Seven per Cent. Mortgage Bonds which were drawn on Dec. 1, for payment at par. The drawn bonds will cease to bear interest on Jan. 1, on and after which date they will be paid either at the offices of the Société Générale the Credit Industriel et Commercial, 73, Rue de la Victory, Paris, or at the Rio Tinto Company's office in London. Bonds to be paid in London must be left three clear days previously for examination.

Vice-Chancellor Hall has appointed Mr. F. B. Smart (F. B. Smart, Snell, and Co., accountants, Cheapside) official liquidator of the Belfast and Carrick-fergus Salt Works (Limited).

Petitions have been presented to the High Court of Justice for the winding up of the Phosphate Sewage Company and Pinto Silver Mining Company. Creditors of the Gefle Gas Company (Limited) are to send in their claims to the official liquidator, Mr. A. Lass, Gracechurch-street, on or before Dec. 11.

The directors of the National Provincial Bank of England have declared a half-yearly dividend at the rate of 8 per cent. per annum, and a half-yearly bonus of 8 per cent., being together at the rate of 20 per cent. per annum.

David Forbes.—Regret will be very generally felt to learn that Mr. David Forbes, F.R.S., died on Tuesday. He has long occupied a prominent position in the scientific world, and had had considerable experience as consulting engineer to various English companies engaged in mining and metallurgical undertakings. He was elected a Fellow of the Geological Society in 1853, and was secretary thereof for the current year. He has also occupied the position of foreign secretary of the Iron and Steel Institute almost from its establishment, and his periodical records of the progress of the iron and steel industries in foreign countries have been of inestimable value to the ironmasters and steel manufacturers in this country. value to the ironmasters and steel manufacturers in this country.

ASSAYS AND ANALYSES

WITH THE UTMOST DISPATCH, AND ON VERY MODERATE TERMS. Samples may be sent by Post in bags, which will be supplied free upon application. Address, Messes. WILKES BROTHERS, LABORATORY DEPARTMENT, 15, TRINITY SQUARE, TOWER HILL, LONDON, E.C.

RAILWAYS, AND BRITISH LEAD MINES. NOW READY-FIFTH EDITION, price 1s. 6d. RITISH LEAD MINES, with MAPS, and a NEW PREFACE:
Containing an analysis of Railway and Lead Mining Shares and Dividends.

By J. H. MURCHISON, F.R.G.S.

London: At the Author's Office, 8, Austinfriars, E.C.

"Contains a good deal of information that may be useful at present. Mr. Murchison's theory is briefly that on the average British Lead Mines have less of the lottery element in them than any others, and the figures he gives seem to support that view; at all events, those interested in this industry will find his facts and observations worth reading."—Times.

"Calculated to be a great benefit to investors."—Mining Journal.

"We have great pleasure in recommending his treatisn."—Morning Post.

"We invite capitalists to look into this means of investment,"—Money Market Beriew.

ZINC ORES.

ARMAND FALLIZE, INGENIEUR-CIVIL, A LIEGE (BELGIUM .
BÖJER OF

1.-CARBONATED AND OXYDED ZINC ORES (CALAMINE, &c. 2.-ZINC AND LEAD ORES MIXED TOGETHER, BUT DRESS-ABLE KINDS ONLY.

CAPPER PASS AND SON, BRISTOL,

PVRCHASERS OF

LEAD ASHES, LEAD SLAGS, SULPHATE OF LEAD, HARD LEAD, BRASS SLAGS AND ASHIS, COPPER REGULUS, MATTE, SCORIA, TIN ASHES, TERNE ASHES, &c., and MIXED ORES or REFUSE, containin LEAD, COPPER, TIN, or ANTIMONY.

THE RIPLEY SPELTER COMPANY RILLEY, DERBYSHIRE,

ARE PURCHASERS OF

BLENDE AND CALAMINE ORES, HARD SPELTER, SPELTER AND ZING ASHES, FLOX FAIMMINGS, and other ZING RESIDUES. Also COPPER SLAG, BRASS ASHES, TIN and TERNE ASHES, and SCRUFF and other METALLIC RESIDUES.

HENRY SEWELL, M.E., F.R.G.S.

LONDON ADDRESS,-10, UPPER WESTBOURNE TERRACE.

IN PERU,-POST OFFICE, LIMA. IN CHILL-BRITISH CONSULATE, VALPARAISO.

Mr. H. SEWELL, M.E., F.R.G.S., will reach London, via New York, in two months time, bringing with him particulars of some rich Mining Properties. He has contracted in Chili for Copper, Silver, Gold, Cinnabar, Nickel, and Silver-lead Properties. About December any cablegram will reach him addressed Lima, Peru.

WILLIAM CRAWFORD,

COAL FACTOR AND GENERAL AGENT, CONSTANTINOPLE,

IS OPEN TO ACCEPT THE AGENCY OF A GOOD FIRM.

SAN JUAN, COLORADO, U.S.A.

E. STEINBACH, C.E.

METALLURGIST AND ASSAYER,
VISIT, INSPECT, AND REPORT UPON MINES.
DEL NORTE, RIO GRANDE COUNTY, COLO.

T. R. GLOVER,

MINERAL DEALER AND BROKER AND GENERAL FINANCIAL AGENT, 2, EXCHANGE STREET EAST, LIVERPOOL.

OR SALE,—16 horse power DOUBLE CYLINDER SEMI-PORTABLE ENGINE, with 18-horse power BOILER, by Robey and Co., nearly new, in splendid condition. Apply, Warsor and Hill, Engineers, Nottingham.

Mr. E. JACKSON,
Associate of the Royal School of Mines,
ANALYST AND ASSAYER.
Assays or Complete Analyses made of Copper, Silver, Lead, Zino, Tin, and other Ores. 108, QUEEN VICTORIA STREET, LONDON, E.C.

PART:—

100 VAN CONSOLS, at £2 0 0 100 PARYS MOUNTAIN... £0 12 0
25 WEST GODOLPHIN ... 2 10 0 100 CHAPEL HOUSE COL. 3 0 0
50 CEDAR CREEK ... 0 12 6 50 GLERROY (Lead) ... 115 0
30 PENNERLLEY ... 1 5 0 100 NORTH LAXEY ... 0 12 6
20 MINERA ... 20 0 0 20 LEAD HILLS ... 7 0 0
Address, H. WILKINS, 3, Heyburn Villas, Tottenham, London, N.E.

M. THOMAS THOMPSON, JUN., 1, PALMERSTON BUILDINGS, BISHOPSGATE STREET, LONDON, E.C.
Mr. THOMPSON strongly recommends the purchase of the chares of the CHAPEL HOUSE COLLIERT COMPANY (Limited) for investment. This company, otwithstanding the stagnation in trade, clears a profit of 2s. per ton on its coal, and when the new works are completed he present handsome returns will be much augmented.

MR. W. MARLBOROUGH, STOCK AND SHARE DEALER, 29, BISHOPSGATE STREET, LONDON, E.C. (Established 20 Years) oan sell the following SHARES, at prices annexed:—
20 Alltam; 40 Goren, 10s. 50 Penstruthal, 10s. 64.

oan sell the following SHARES, at prices annexed:—
20 Alltami.
20 Alltami.
30 Cedar Creek, 16s. 3d.
15 Chiengo, £6 13s. 9d.
20 Dor Pedro, R. 3d.
16 Eberhardt, \$8 \foxide{5}.
10 East Van, £8 1s. 3d.
15 Eberhardt, \$8 \foxide{5}.
25 Exchequer, £2 \foxide{2} s.
20 E. Caradon, £1 \foxide{6}s. 3d.
25 Glenroy, £2 \foxide{5}.
30 Glenroy, £2 \foxide{5}.

Boddrifts.—Business either as a buver

50 Penstrutini, 10s. 61.
30 Penmerley, £1 Is.
60 Parys Mount, 12s. 9d
130 Prince of Wales, 6s.
25 Rookhope, 13s.
10 Skerne Iron, £1½.
15 South Aurora, 1s. 3d.
15 Tankerville, £9½.
40 Van Consols, £2 Is. 3d
15 W. Wye Valley, £3 2s.
30 W. Tankerville, 1½.
10 W. Goginan. £1 Is 3d
33 West Goddiphio.

Bodders.—Business either as a buyer or seller.
Shares Bought and Sold at net prices. Telegrams promptly attended to.

R. GEORGE BUDGE, STOCK AND SHARE DEALER, 4,
ROYAL EXCHANGE BULDINGS, LONDON, E.C. (Established
25 years), is a BUYER and SELLER of the NORTH CORNWALL (LIMITED)
shares, and intending Investors should communicate with him.
SPECIAL BUSINESS in Exchequer, Santa Barbara, Wheal Jane, Unity
Wood, South Francis, Talybont, Balmynheer, Cakemore Colliery, Chapel House,
East Chivetton, Bodidris, Cedar Creek, Liamwest, and Combinartin. Special bitsiness in this most promising lead mine. See specimens at the office of the company, also title page.

M ESSRS. HARLAND AND CO., STOCK AND SHARE DEALERS, 235 and 236, GRESHAM HOUSE, OLD BROAD STREET, LONDON, E.C.
Bankers: London and County Bank

C APTAIN ABSALOM FRANCIS MINING AGEST, ENGINEER, AND SURVEYOR COGINAN, ABERTSTWITH,

THE IRON TRADE—(Griffiths's Weekly Report).—Friday Evening. The Glasgow market for Sectch pig-iron closed this afternoon firmly with buyers at 58s. 45d.; this is about 15d. lower than the price this day week. We quote makers No. 1 iron:—Gartsheire, 68s. 6d.; Coltness, 71s.; Calder, 66s. 6d.; Langloun, 67s.; Summerlee, 68s. 6d.; Loh. Ardressan; Shot's, 65s. 6d. f.ob. Leith; Kenneil, 61s. f.ob. Bo ness. The trade here has become a little monotonous; the consumers at our great workshops on the river and elsewhere are more alive to the hardening state of our market, but as all our leading engine and machine constructors buy nothing but best iron, and the makers of this class of iron, as a rule, refuse to book orders for longer than a month or two ahead. our business has not been large this week. The disposition to buy for forward delivery increases, even with the solid class of consumers above referred to. The leading Staffordshire and Yorkshire houses have been working all the for such slender profits that they cannot now risk the probability of being caught with heavy forward contracts and the corrolory of advanced prices. This remark applies with greater force to the leading houses of North and South Staffordshire, Robert Heath and Son and the Shelton Bar Company have both refused large orders for forward delivery for plates this week. The business done here is principally in sheet-iron and nail rods, for which two sorts the market is sustained. Hoops, small rounds, and squares are in slow demand. The market is more regular for all second-class qualities. Tin-plates are in better demand, and as we are now getting to the close of year, we still say that a better trade, and much tetter prices with soon be obtained for all brands of the plates. Sone large sales of hematite pig-iron have been made by the smelters on West Coast this week either from Glasgow or any of the provincial iron exchanges. These markets are all quict, but for the best iron very firm.

HALIFAX.—Dec. 7: The following quotations are from Mr. J.

HALIFAX.—Dec. 7: The following quotations are from Mr. J. H. Thackrah's list:—Halifax and Huddersfield Union Bank, 29½; Halifax Joint-Stock Bank, 30½; Halifax Commercial Bank, 24½; London and Yorkshire Bank, 24.6d.; John Crossley's, 11; Whitworth and Co., 7½; Badford Brick and Tile, A, 14; ditto, B, 5; Ripponden Commercial, 19; Yorkshire Boller Insurance, Co., 22s. 6d.; Norton Brothers, 8; Heckmendwike Manufacturing Company, 4; tjeele Steam Shipping Company, 12.

Notices to Correspondents.

Much inconvenience having arisen in consequence of several of the Numbers
during the past year being out of print, we recommend that the Journal should
be filed on receipt; it then forms an accumulating useful work of reference.

RELLEY MOTOR—TRUSS ELECTRO-DYNAMIC ENGINE—It would no doubt interest many of your readers as well as myself to hear what has become of the Keeley Motor, on which a letter appeared in the Journal of Oct. 16, 1875, and also if the Truss Electro-Dynamic Engine has been usefully applied yet; or whether both these much-to-be-desired prime movers have turned out all gas. Perhaps some of your correspondents can give the latest news, and oblige—M. E. Mr. C. S. RICHARDSON, writing from Alma, Park County, Colorado (Nov. 17) says—"We have here on the Bross and Lincoln Mountain over 10,000 tons of ore, carrying from 15 css. to 30 css. of silver already mined and thrown away on the spoil heaps for want of some cheap system of reduction. Here is a fine field for the Nascent process operation."

cent process operation."

cd, "H. B." (Ontonagon) "D. R." (Georgetown, Colorado) "J. P. S."

arasion): See p. 1332, Supplement to last week's Journal: Gold Mining in

i = "H. P. G." (San Francisco) = "Amateur:" Le.ds = "Shareholder"

enock) = "J. L." "W. B. M." "E. K." (Coventry): The old company

been dissolved, and a new one formed. As a shareholder, "E. K." will

ve the particulars.

has been dissolved, and a new one formed. As a sufficience, and receive the particulars.

THE SUPPLEMENTARY SHEET.—We have received occasional complaints, and jobs of a good many, that the Journal is delivered by country booksellers without the Subsectibers would oblige us by demanding that the paper should be handed to them complete, as every Journal is accompanied by the Supplement when it leaves our office, and the fault of omission must rest wite the country bookseller or their London agent.

IMPORTANT NOTICE—REDUCTION OF POSTAGE ON THE "MINING JOURNAL."—In consequence of the new POSTAL CONVENTION, which came into operation on July 1, the postage of the Moung Journal to many countries will be reduced to one fourth. Henceforth the subscription will be 11, 10s. 4d. per annum (30 frs.), postage included, for the following countries. The amount will, if desired, be collected at the subscriber's residence at the end of each year. The subscription continues until countermanded:—Austria, France, Belgium, Denmark (including Iceland and the Farce Islands), Egypt, Germany, Gibraltar, Greece, Heligoland, Italy, Laxemburg, Netherlands, Norway, Portugal (including Madeira and the Azores), Roumania, Russia, Servia, Sweden, Switzerland, United States, Malta' Turkey, Morocco, Tunis, and the Canary Islands. Spain 14, 19s. (50 frs.)

American Subscribers.—In reply to several enquiries, it may be stated that

AMERICAN SUBSCRIBERS.—In reply to several enquires, it may be stated that subscribers in the United States can be supplied with the Mining Journal, postfree, at the price of \$850c. gold per annum, payable in advance, by remitting to Mr. D. Van Nostrand, publisher, and importer of scientific books, &c., Murray-street, New York; or, direct to our Office, 26 Fleet-street, E.C.

*** LECTURES FOR PRACTICAL MINERS.—Immediately on the completion of the reports of Prof. SMYTH'S Lectures (of which only three or four remain unpublished), a series of careful reports, specially prepared for the Mining Journal, from notes taken by Mr. J. CLARK JEFFERSON, A.R. S.M., Whitworth Scho ar, and formerly Student of the Clausthal Mining School, of the Lectures there delivered, will be given. The series are very complete, and will be highly valuable for the sound technical matter which they contain. nical matter which they contain.

THE MINING JOURNAL.

Railway and Commercial Gazette.

LONDON, DECEMBER 9, 1876.

THE ASSESSMENT OF IRONWORKS AND COLLIERIES.

THE ASSESSMENT OF IRONWORKS AND COLLIERIES.

Mr. C. R. M. Talbot, M. P., the Lord-Lieutenant for Glamorganshire, and formerly the Chairman of the South Wales Railway, has just sent to the local press a most valuable paper in reference to the recent valuations of the various ironworks, manufactories, and collieries in that important mining county. Many of his remarks, however, are applicable to such works generally in any part of the country; and coming from a gentleman of such wast experience and knowledge, deserve the serious attention of all interested therein. As proof of his competency to form an opinion upon the subject upon which he writes, Mr. Talbot says—"I have probably larger opportunities of forming an opinion on subjects of valuations and valuers than occur to most men. When I was Chairman of the South Wales Railway all the valuations of property, and every description of rights, passed through my hands in settling the purchase through at the counties of Glucester, Monmouth, Glamorgan, Carmarthen, and Pembroke, and the general result of my dealings with professional valuers is a belief that an exparte valuation is of little or no practical use, but, on the contrary, is often misleading and deceptive." After such great and varied experience no one, we presume, will doubt that Mr. Talbot is most fully competent to speak with authority, and the ophion he has arrived at fully confirms that which has long since been feit by the proprietors of manufactories, iron and steel works, and collieries—ie, that their properties are unreasonably as essed by valuers, and endorsed by the various rating authorities, who often have no especial knowledge of the are unreasonably as essed by valuers, and endorsed by the various rating authorities, who often have no especial knowledge of the points at issue, and no regard for the exigencies of trade which so frequently arise.

frequently arise.

When alluding to the assessment of the Glamorganshire works and collieries some two or three weeks ago, we stated that Mr. Hedley, of Sin lad had made the fatal mistake of rating the works as in full working and profitable occupation, and remarked that "probably the case would never have been brought forward at all if the proper preliminary and necessary enquiries had been made before the valuation as to the present state and future prospects of the iron trade." Mr. Talbor, who from his letter has evidently made searching personal enquiries at several of the leading works, now endorses the opinion we thus expressed, for he says—"I believe I am right in saying that Mr. Hedley arrived at his estimate without that careful enquiry into facts which ought to precede the exercise of an authoratative decision on the value of minufacturing, mining, and authoratative decision on the value of manufacturing, mining, and commercial prosperity."

The valuation of mines, works, and collieries for rating purposes

The valuation of mines, works, and concrets for rating purposes is far more important than the public generally feel disposed to accord to it. Nay, we question whether it is not often overlooked by the proprietors themselves when first making the purchases of the works, or making fresh outlays in enlargements. When the iron. works, or making fresh outlays in enlargements. When the iron, steel, patent feel works, manufact tries, and ollieries are situate near cities or towns, and within the area of urban rating districts, the rates paid the reupon, together with the poors rates, forms a formidable item indeed. We know that in one or two of the heaviest rated districts in the king bun the local taxes are unt to from 7s. to 10s. in 1/Lup in the rental, so that proprietors should remember that the rates are at least a third of the rent. It must be evident, therefore, to the most superficial mind that the rating of these works and collieries forms a most material element in their successful management, and as the prosperity of our ironworks, manufactories, and oldieries, we can see no vaid reas in why they should be more heavily weighted with local taxes than the mansions of the squires and aristocracy, or the business of the successful tradesman or merchant.

the successful tradesman of

There is unquestionably a tendency to en runously increase the assessment of ironworks and collieres upon the slightest protext, and the prosperity of the mining industries a few years since was too tempting a bait to be resisted by the rating authorities. Hence, in many districts all kinds of properties connected with the staple trades have been doubled for the purposes of taxation. And it should be remembered that when once the higher basis has been established it is very much like the inflexible laws of the Medea and Persians of old, which were said to never charge. At all events Persians of old, which were said to never change. Persians of old, which were said to never change. At all events, the difficulty of obtaining any reduction in the rating assessment is enormous, and when attempted involves costs which may well deter any but the most wealthy. These frequent re-valutions of manufactories and works are, to say the least, exceedingly inconvenient and irritating, causing vexatious annoyance, loss of time and expense to the proprietors, which should be avoided except under the most pressing necessity. We seldom or ever hear of At all events anything like united agitation amongst the proprietors of works or colliery proprietors for reduction of taxation even in the most depressed state of trade, and we protest, therefore, against these constant increased assessments of works and collieries upon the least pietext. The proprietors of works are willing to pay upon an

equitable basis of value, and certainly this is not the time to seek

an advance.

The process by which the valuation of works and collieries is attained is also open to question. Mr. Talbor endorses the opinion of one of the most able valuers (and all acquainted with the subject will do so also) when he says—"The man does not exist who can value mines, mills, docks, manufactories, collieries, chemical works, and railways. It is absurd to suppose that because a man calls himself a surveyor or valuer he can go fresh to any one of these complicated properties, and by an inspection of it, and such information as he can pick no. pronounce upon its value, and that a committee a surveyer or valuer he can go fresh to any one of these complicated properties, and by an inspection of it, and such information as he can pick up, pronounce upon its value, and that a committee of gentlemen should thereupon adopt what he says." But how often have the large manufacturer and the colliery proprietor found to their cost that this is the very thing that has been done. The opinions and the sworn testimony of those engaged in the works or colliery is often set aside, and the evidence of the proprietor ignored, as being that of interested persons, and the mere theory or belief of the professional valuer adopted as the basis of future rating until some new crotchet arises, when the assessment is again raised by the same process. We have repeatedly urged that an equitable basis for rating purposes can never be ascertained by the fluctuation of business, nor will satisfaction be given to our works and colliery proprietors so long as the present system of valuation is adopted. It must be evident that the most able valuer who ever lived cannot be so conversant with the many exceptional contingencies which every now and then arise in the prosecution of the work as those daily associated therewith. It is paying, therefore, but an ill compliment to these gentlemen when assessment committees practically disbelieve them, and place implicit faith and confidence in the opinion of a valuer simply because he is styled a professional man. There is a tendency throughout the whole country at the present time to largely increase the value of manufactories, works, and collieries for rating purposes, notwithstanding the acknowledged depression of trade, and the opinion of such a gentleman as and collieries for rating purposes, notwithstanding the acknowledged depression of trade, and the opinion of such a gentleman as Mr. C. R. M. TALBOT at such a juncture is most valuable, inasmuch as it is that of a gentleman who has had as great and varied experience as any man in the country, and who is, therefore, in every respect fully competent to speak with weight and authority.

SEARCHING FOR MINERALS, &c.

Of late years minerals have been sought for and found in localities in which such were not laid down on any of our geological maps, or noticed by our ablest geologists. But, on the other hand, they have been looked for in districts where a knowledge of geology would have shown that it was impossible that they could be met with. Only last week we announced the discovery of valuable teds of ironstone in Ireland, of which there was not the slightest notice in the maps of the Gological Survey, while they know many others. with. Only last week we announced the discovery of valuable teds of ironstone in Ireland, of which there was not the slightest notice in the maps of the Geological Survey, whilst we know many other districts in a similar position. Not so long since, whilst visiting. Northampton, we noticed close to a small town that the roads were mended and laid with ironstone having upwards of 40 per cent of metallic iron. Our reference to it at the time had the effect of drawing attention to it, and it is now being raised in considerable quantities, and furnaces are being erected for smelting it. In Lin colnshire the vast field some hundreds of square miles in extent was discovered by accident, and what was once a vast waste tenanted principally by rabbits is now one of the most promising centres of the iron trade we have, and should coal be found in any quantity in the county—of which there is the strongest probability—the Frodingham district will become a rival in every way to Cleveland, seeing that it has every necessary outlet for the transport of its produce both by railway and water. In some localities coal has been found where it was not expected even by our ablest geologists, and of which the geological maps gave no indications. This was the case near to Nottingham in what may be termed the boundary of the Midland coal field. In Staffordshire the 10 yard coal has been proved through the energy of an able mining enginéer, whilst in the far North of Scotland coal has been met with, and is now worked on the estate of the Duke of Sutherrands. on the estate of the Duke of SUTHERLAND.

It is admitted that, in addition to our known coal fields, there are

vast quantities of that mineral concealed below Permian, Triassic, wast quantities of that inflerat concealed below Ferman, trastic, and Liassic strata outside the existing boundaries of the former, but which will be met with and reached in all probability unexpectedly. Mr. Godwin-Austen and others consider that the coal measures will be found beneath the cretaceous rocks lying between the coast opposite Calais and the Somersetshire coal field. In many other parts of the kingdom there is very little doubt but what coal will be found where least expected, so that the duration of our coal fields. be found where least expected, so that the duration of our coal fields will be found to extend over a great many more years than has been predicted by some of our most eminent geologists. The same will also be the case in other parts of the world—in India, New Zealand, and on the American and European continents. In nearly every instance the deposits of strata bear a strong affinity to each other.

In the North of France the coal is found underlying the magnesian linestone in Sweden below the linesic and lying upon the

in the North of range the coal is found underlying the magne-sian linestone, in Swelen below the liassic, and lying upon the red sandstone and clays, probably triassic. In almost every dis-trict the coal is found resting on clay in England, with the same identical fossils. Ind-ed, the fossils are the best of landmarks, and the most reliable data that we have, for by them the same rocks are identified although widely separated. At the present time borings are being made in Lincolnshire and other counties where the geolo-gical magness are indication whether of the present of seed and are being made in Lincolnshire and other counties where the geological map gives no indication whatever of the presence of coal, and with every prospect of success. As a matter of course there are vast areas where coal does not exist, and others where it is such a depth as to make the sinking to it impossible. The latter, for instance, is to be found with respect to the plain of Cheshire, where coal undoubtedly is, but to reach the highest workable seam at Northwich it would be necessary to carry the existing shaft, which goes down to the great salt rock, at least 4000 ft. lower. But the practical man will know the likeliest place where to bore to with a fair chance of success. In many instances, however, sinkings and borings have been made that have turned out the reverse of what was anticipated.

was anticipated.

But this may be attributed in a great measure to the ignor nee of but this may be attributed in a great measure to the ignor-ince of the persons who hunted after an impossibility, and of this we could give many illustrations. Near to Tiverton, in Devonshire, a shaft was sunk in the shales of the millstone grit, in the expectation of finding coal. Work was pushed forward in the hore of reaching the black diamonds, but without success, until one Sunday, when, as the people were returning from church, it was announced that coal had at last been found, and all rejoiced exceedingly at the news. coal had at last been found, and all rejoiced exceedingly at the news. Great, indeed, was the joy of the entire community when on Monday morning the miners brought up some coal of excellent quality, and the church bells sent forth merry peals. It turned out, however, that some boys had emptied a scuttleful of coal into the shaft, on the top of which they threw some of the rubbish at the surface. In the Forest of Dean carboniferous limestone shale is at least 1000 ft. below the lowest help of coal; vart in Harsforkhira greatlest.

the top of which they threw some of the rubbish at the surface. In the Forest of Dean carboniferous limestone shale is at least 1000 ft. below the lowest bed of coal; yet in Herefordshire a gentleman believed that the challenger of coal; yet in Herefordshire a gentleman believed that the challenger of coal; yet in Herefordshire a gentleman believed that the challenger of coal; the necessary buildings to carry on an extensive trade. Of course he was greatly disappointed, and could not bear to hear the word coal mentioned. It was only a couple of years or so since we exposed a similar failure and attempt at imposition. It took place at Epworth, in Lincolnshire, where a lady engaged a sinker to bore for coal. He worked diligently for some time, drawing his wages weekly. At leathe brought to his employer some pieces of coal which he said he had brought out, nowever, that the coal was first put down by the sinker before he drew it up, so that the bore-hole still remains as it was left at that time, and the lady is now resigned and satisfied as to there being no coal on her estate at an easy depth. Then there was the shaft which was sunk at Kingsthorpe, near Northampton, the adepth of nearly 200 yards, on the expectation of coal being found, and allusion to which has been frequently made in the Journal, still with all these failures coal will be met with, as we said before, in localities where previously there had been no knowladge of its avistance as that in our coning no the area of our coalsaid before, in localities where previously there had been no know-ledge of its existence, so that in our opinion the area of our coal-field cannot be defined. Petroleum, which is destined to play a very important part as a generator of heat, was unknown until a com-

paratively recent date, so were the mineral oils of New Zealand, one of which is a true paraffin. These discoveries have been invaluable, and we have very little doubt but what new and undefined fields of coal will also be met with in various parts of the kingdom.

THE IRON TRADE.

THE IRON TRADE.

The information which continues to reach us relative to the great iron making industry of the United Kingdom is at once cheering and depressing, cheering because of its elasticity and progress, and depressing because so little profit attends the prosecution of the industry. But an industry on which so much business capacity and so comprehensive a grasp of the elements of national success are demonstrated cannot long be under even such a cloud as that which is now passing across its face. Happily the cloud is more incompanied. moving, and the ironmasters are doing their best to accelerate its

We drew the attention of our readers to the October returns of We drew the attention or our reasers to the Cleveland Ironmasters' Association. The facts then brought out were generally surprising, but we venture to say they were less to than are the facts which are to be evolved from the returns for November. Those statistics showed an increase in the make of pig. November. Those statistics snowed an increase in the make of pigiron as compared with November last of 6000 tons, yet a decrease in stocks upon last October returns of no less than 4000 tons, and the makers of forge iron still declare themselves to have as much to do as they are able to meet the requirements of their cu-tomers. That all this should be so at a time when the Baltic ports are closed is highly satisfactory. It comes about at a time when decidedly more vigour is being displayed in the neighbouring district of Scotland and water to which over a quantities of Claydon iron to see the same property of the same property of the same property of the same property. vigour is being displayed in the neighbouring district of Scotland—a market to which great quantities of Cleveland iron have long been going. We have no doubt that an analysis of the returns would prove that the home consumption has considerably increased in the immediate neighbourhood of the furnaces. By no means dismayed by their misfortunes arising out of the almost annihilation of the iron rail trade, the northern ironmasters have given themselves to the production of plates and angles for shipbuilding, and of similar classes of iron to meet the vast requirements of the London market. classes of iron to meet the vast requirements of the London market for home use and for export. In these departments of the finished iron industry they have been greatly successful. The success may have now and again showed itself in getting an advantage at the cost of some other home district, but not a little of it has been accompanied with evidences of a much more satisfactory nature, Cleveland enterprise has largely checked the importation into this country of Belgian iron and we shall be greatly mixture it is country of Belgian iron, and we shall be greatly mistaken if this

country of Beigan iron, and we shall be greatly metaken if this does not appear with increasing conspicuousness.

Startling things are being said of the capacity of certain southern portions of the United States for making good iron at a very cheap rate, but Cleveland possesses in its iron hills, its adjacent coal fields, and the wealth and energy of its traders, the means of producing excellent pig-iron at rates and in quantities at present impossible elsewhere throughout the whole world. If by-and-bye Lingslabies cellent pig-iron at rates and in quantities at present impossible else, where throughout the whole world. If, by-and-bye, Lincolnshire should attain the ambition which possesses it, and should become a rival in these respects to Cleveland, all the better for England. We are concerned for no locality, but speak of the most prominent of the districts as representative of the whole industry. And if Cleveland can show such a front in relation to the pig trade there is no reason why it should not avail itself of all those advantages to inspect to exist the entire of the whole industry. reason why it should not avail itself of all those advantages to improve its position as a mill and forge neighbourhood. The stealy progress which Cleveland has made in that direction it continues to make, for the conversion of rail mills into mills for rolling notonly ship plates, but likewise girder and bridge plates and tank plates is making steady progress. When all has been done in that respect which is certain to be done in Cieveland, then, in the matter of finished iron, we have little doubt that the time will have passed when the English public will have allowed her as these the Carlish public will have allowed her as these the contents. when the English public will have placed before them sensitional announcements about large sales of Belgian iron at the doors of English ironworks.

announcements about large sales of Beigian fron at the doors of English ironworks.

All this energy and progress is occurring simultaneously with well-directed efforts by ironmasters, than whom the world knows no superior, for otherwise economically utilising the native products of Cieveland in the production of an article of commerce which, of itself, if the effort should be successful, would restore Cieveland's fame in the rail-making world. The issue of those experiments may or may not be success. In either case the future of the Cieveland district should be increasingly satisfactory. Its leading men are not only in the manner we have indicated giving practical attention to business details inseparable from success and progress, but they are allowing no opportunity to pass by for propulgating elsewhere sound commercial views, which if they should be as thoroughly recognised elsewhere as they are throughout our own land, would immensely benefit the British fron trade; indeed every other of our native industries. We need hardly again urge upon the British Iron Trade Association to keep earnestly at work in all these directions, for we are satisfied that little short of brilliant success awaits them. It is certainly distressing for Cleveland and for South Wales that, as is more than likely nothing short of 2,000,000, bas Wales that, as is more than likely nothing short of 2,000,000, has been lost in the past two years by rail-making firms in these two leading rail districts of the United Kingdom. Nor is it much less so that the prices which at present the market will alone hear slike as to pig and to rolled iron. But the profitless terms upon which so much business is now being done in the iron trade of all the districts not of Great Britain all one but likewise of the whole join. tricts, not of Great Britain alone, but likewise of the who tricts, not of Great British and in, but likewise of the whole making world, are, speaking in the aggregate, becoming gradually less conspicuous, and the day is not very remote when the doal shall no longer eclipse any portion of the face of an industry around which nearly every other revolves, and to which nearly every other is indebted for the means of its prosperous existence.

BRAZILIAN GOLD MINING COMPANIES. - A Bill has been passed BRAZILIAN GOLD MINING COMPANIES.—A Bill his been passed by the Provincial Assemblea (Parliament) of Minis Geraes, where most, if not all, of the English gold mining companies have their works, imposing a tax of 4 per cent, upon the gross amount of the gold extracted from the mines. In some instances such a tax would probably be the cause of shutting up the works of strruggling mines. This matter is considered so important that Mr. Gordon, of the St. John del R-y Company, made a special journey to Ouro Petro to make representations to the President of the Province, but there is very little doubt that the Assemblea will exercise their right to raise revenue by the tax within their own burstless. ercise their right to raise revenue by the tax wi hin their own beders, and insist upon it being paid, with the arrears, amounting to a large sum! In the estimates of the province, credit has been taken for the amount thus to be raised. The policy of such a tax, however, is extremely doubtful.

PATENT LAW IN GERMANY.—A bit I has been prepared for introduction into the German Reich stag which for schools a me increasement in the patent laws of Germany. It is well known that in Prassia it has long been most difficult to obtain protection for even the best authenticated discoveries. The new bill provides had patents may be granted for a term of 15 years. For each pit and 30 and 8 are to be residued as a constant of the provides and patents are provided as a part of the p are to be paid as soon as it is granted, but p we inventors are all a de ay not exceeding two years. At the beginning of the secon 50 marks must be paid, and 50 marks more every succeeding any person having used an invention before it was patented may continue to use it without making any payment to the patented may the latter is, however, bound to permit its use to any me who will pay for it. Refusal to concede this right entitle loss of the prest privileges. The Patent Office is to have the right of publishing all descriptions and drawings in print, and any person may search the specification drawings and other decompant; in the office. pecification drawings and other documents in the office.

COAL AND IRON IN THE UNITED STATES .- Mr. Morris, the en-COAL AND IRON IN THE UNITED STATES.—Mr. Maris, the gineer of the Nashville, Chattanooga, and St. Louis Railway, report that the Cumberland table land, west of the Sequatchia Valley, one tains a coal field of vast extent. Mr. Morris has visited three mines with outcrops 7 to 10 ft. thick. In the course of the year ending Sept. 30, 1876, the Baltimore and Ohio Railway Company carried 1,187,289 tons of coal for the public, 1,115,813 tons being delivered in Baltimore. On the main stem of the Baltimore and Ohio Railway 597 miles of track are now laid with steel rails. The aggregate production of anthracite coal in Pennsylvania to November 11 this year

of a unp dept of g ther ther stoc Bori mac Bold that pres bein poss prov macl

ame spo yea to this this resp yea Rai The

Roo

hope miai quire 2117. will 300%. 30%: Mine M.P., F. G 5/.; Mr. J The gone hund

they expec-strugg can ve men t

Nothi duction Union

pros of the

Some would sugge form a the enthat the methink only c in Fra Yearly The Cornw sident sideral The a counc rary m be gen terest nual su

date for quaints come n rally; a regular! Saturda

W. Bain The V banker's misunde new princases. I in such a at the ma ing-up, a charges i ow that

The same authority or acquie holders. Buy such the burde been expe amounted to 16,222,599 tons, against 18,018,198 tons in the corresponding period of 1875, showing a decrease of 1,795,599 tons this year. The aggregate production of bituminous coal in Pennsylvania to Nov. 11 this year was 3,159,202 tons, against 3,443,187 tons in the corresponding period of 1875, showing a decrease of 283,985 tons this year. The aggregate coal production of Pennsylvania to Nov. 11 this year was thus 19,381,801 tons, against 21,461,385 tons in the corresponding period of 1875, showing a decrease of 2,079,584 tons this year. The quantity of coal and coke carried over the Pennsylvania Railroad in the first 10 months of this year was 3,873,503 tons. There is no change in English cannel coal at Boston; the sales effected have been made in small lots at \$16 to \$16\frac{1}{2}\$ per ton.

SALE OF MINERAL ORES.—A very interesting collection of silver ores from Chili and Bolivia was dispersed last week at Stevens's Rooms, Covent Garden. The prices realised were very high, one small specimen of red silver, about the size of an orange, bringing no less than 200%; another about a quarter the size, with very perfect cry-tals, brought 100 guineas; and the remainder, consisting of about 100 small specimens, were sold at proportionate prices. These were some of the finest specimens ever brought to England.

REPORT FROM CORNWALL.

Dec 7.—There were abundant rumours concerning the probability of a drop in the tin stundards on Monday, prompted no doubt by the anyomsing state of affairs in the East, and in sympathy with the depression felt elsewhere, and which more or less affected all kinds of general investments. However, mothing came of it then—and there certainly was no reason why there should—but on Tuesday there was a drop of the pression can be but temporary to be stocking system of that the trial of the borer of the Diamond Rock—Bondy, the way) at Carn Brea will be thorough and complete. The middle of the board of the

new principle, but that which he had constantly acted upon in these cases. It was this. If a banker advanced money to a cost-book mine under a resolution pursuant to the Stannaries Act, 1869, passed in such a way as to bind all shareholders whether present or absent at the meeting the banker could claim against the mine in a winding-up, and the amount so advanced, together with all the banker's charges incident to the advance, and no obligation lay upon him to show that the meeting the banker could standard to the property of the standard property of the standard property as the standard p

THE BORING MACHINE AT DOLCOATH

Ground driven, 5 fms. 1 ft. 6 in., at 25/. per fm. £131 5 0 Profit over hand labour £ 18 15 0

It will be seen that all the cost of coals, enginemen, engineer, and smiths is included in the above, against one machine at work; of course, these expenses would be proportionately less if more machines were use 1.—Cornish Telegraph.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

Dec. 7.—The condition of the Iron Trade in this district is unimproved. There is scarcely so good a demand for first-class finished iron, and me lium and common qualities are difficult to sell, even when makers are prepared to accept quotations which leave them without profit. Pig-iron for immedsate use is moving but slowly; some buyers of average qualities, both good and inferior, are disposed to buy forward at current rates, but they are uot generally successful. Little or no improvement in other departments of the industry is looked for up to the close of the year. Coal is in larger supply than for months past, the men evincing a disposition to do as much work as can be found for them in the short hours that they demand shall alone constitute "a day;" but the consumption is at a low ebb, and a manifest disposition to meet buyers' views as far as is reasonable does not stimulate transactions.

The committee of the South Staffordshire Ironmasters' Association held a meeting on Thursday, at the Queen's Hotel, Birmingham, to "consider what course should be pursued with regard to the several railway bills which are to be introduced in the next session of Parliament, and to arrange for the due protection of the South Staffordshire iron trade by a careful examination of their contents when published, and, if needful, by opposing them in Parliament." The result of the discussion was that it was considered desir-ble that the committee should place themselvas in communication upon this subject with the British Iron Trade Association, the Chambers of Commerce, and other bodies of traders.

The value of mining and ironmaking property hereabouts, tested by the prices which the shareholders of limited liability concerns are prepared to take, is not increasing. Sandwell Park Colliery shares are going at 233, but they are bought at that figure with tolerable readiness. West Cannock shares of 50%, with 20% paid, are offered at ½ discount, and Spon Lane Colliery shares of 10%, with

were by the supercharg at Seegley on aboung matter in mess varying from 14. to 34. The accused were shown by the Sub-Inspector of Factories to have worked half-timers full time, or from seven till seven; neither had the children attended school.

During Friday night two miners were killed at the Barrack Pit, Primrose Hill, making the third fatal accident in the Dudley district within a week resulting from a fall of coal. Joseph Neale and Samuel Ettle were at their ordinary employment when an immense mass of coal fell from the roof. They made an attempt to escape, but, although they got clear away from the falling coal, they were overtaken and suffocated by slack and dirt which came down with it. At the pits in North Staffordshire there is slightly more doing; the pigmakers experience no difficulty in selling their restricted output, but it is very hard to dispose of as much pottery-mine as producers would readily sell. In the mills and forges there is, upon the whole, less doing this week than last, a little less activity in the bar mills being more than compensated by greater quietude in the

bar mills being more than compensated by greater quietude in the

plate mills.

Mr. John Jenks having held the important position of general manager at the Minerva and Beaver Steel and Iron Works of Messrs.

I. Jenks and Son for 26 years, and having recently vacated that position, a deputation of the men (most of whom had been under the managership of Mr. Jenks for a number of years) have presented him with a very handsome walnut Davenport writing-desk. Mr. William Moineux made the presentation.

REPORT FROM THE NORTH OF ENGLAND.

REPORT FROM THE NORTH OF ENGLAND.

Dec. 6.—There is, on the whole, no decided falling off in the prospects for the better which have recently appeared in connection with the Iron Trade of the North of England. Merchants are showing some anxiety to place contracts for delivery over the first half of next year, and as makers have got their own ideas as to what next year will bring forth, while some of them are decidedly of opinion that short contracts are a source of safety, there is a tendency towards stiffer rates, which will very probably be maintained until the Christmas and New Year's holidays are over, when, in all probability, trade will take a more decided turn than it has yet done. Larger quantities of iron than usual are being sent to Scotland, al though that country is, next to Cleveland, producing at the present time more iron than any other district of the kingdom, and is keeping up its output, while that of Wales and Staffordshire is declining. In Staffordshire only 56 furnaces are in blast out of a total of 149 built. In Cleveland, on the other hand, 110 furnaces are blowing, out of 160 available for use, and in Scotland, which has about an equal built. In Cleveland, on the other hand, 110 furnaces are blowing, out of 160 available for use, and in Scotland, which has about an equal number of furnaces with Cleveland, upwards of 100 are now in operation. It will very probably be found at the close of the present year that while Cleveland has produced more iron than in any previous 12 months, the make of every other district in the United Kingdom has fallen off. With its present resources Cleveland is quite equal to the production of 3,000,000 tons of pig-iron per annum, which is nearly one-half the total production of Great Britain, and the production for this year is already over 2,000,000 tons, although one of the most adverse and disastrous years that the iron trade has ever known.

ingup, and the amount so advanced, together with all the banker's charges incident to the advance, and no obligation lay upon him to show that the money had been a subsequent ratification of the advance authority, there had been a subsequent ratification of the advance or acquiescence amounting to ratification on the part of all the shareholders. But if without such antecedent authority, or without any such ratification, a banker advanced money to the mine then the burden lay upon him to show that the money so advanced had been expended in the payment of the legitimate debts of the mine.

And having done this he would be entitled to prove for his advances, but only to receive simple interest upon them of 5 per cent, Cleveland a great quantity of pig-iron to mix with their own, will probably find that they will have to reckon with a formidable com-

probably find that they will have to reckon with a formidable competitor.

At the adjoining ironworks of the Skerne Company the manufacture of bridge building iron is still being carried on, and a fair quantity of work is on hand. Some time ago the directors of the Skerne Iron Company, desiring to confine themselves entirely to the manufacture of plates, made an effort to dispose of their bridge building department, and a company was actually formed to take it over, but as this company has failed to find the needful capital the Skerne Company have resolved in the meantime to retain the department in its own hands.

it over, but as this company has failed to find the needful capital the Skerne Company have resolved in the meantime to retain the department in its own hands.

When the failure of the West Hartlepool Iron Company took place little more than a year ago it was rumoured that the works were to be acquired by Mr. I. Lowthian Bell, M.P., but up to the present time no sale of the works has taken place, and they are still lying idle, to the serious detriment of the trade of the town. I am, however, informed that if Mr. Bell's new process should turn out successful it is probable he will take over the West Hartlepool Works for the purpose of carrying it out. The matter is as yet rather indeterminate, but I may add as another somewhat significant fact, that Mr. Spencer, the late manager of the West Hartlepool Ironworks, and the patentee of a rotary puddling furnace, respecting which papers have been read before the Iron and Steel Institute and other societies, is helping Mr. Bell in the carrying out of his experiments. It may be added that the West Hartlepool Ironworks consist of three blast-furnaces, 116 pudlling furnaces, a rail mill capable of turning out 42,000 tons of rails per annum, a plate mill capable of producing 10,000 tons of plates yearly, three large forge trams, and seven steam-hammers.

The Steam Coal Trade of Northumberland is falling into an exceedingly unsatisfactory condition. The Newsham Colliery has now been added to the number laid in, throwing idle some 300 men and boys. The High Pit at Cramlington and the Old Delaval F. Pit have also been laid in, throwing other 500 men and boys idle. The pits generally are working badly throughout the county. The owners are making arrangements for the introduction after the new year of the Welsh system of working steam coals, which the miners have fortunately decided to adopt rather than resort to the strike which some of them threatened.

A royal charter has now been obtained for the North of England Institute of Mining and Mechanical Engineers, which was foun

have fortunately decided to adopt rather than resort to the strike which some of them threatened.

A royal charter has now been obtained for the North of England Institute of Mining and Mechanical Engineers, which was founded on July 3, 1852, by Sir George Elliot, the late Mr. Nicholas Wood, and other leading men connected with the Durham coal trade. The membership of the Institute is now close upon 1000.

In Durham there is an active demand for gas coals, the shipments of which from Tyne Dock alone are now going on at the rate of 25,000 to 35,000 chaldrons per week. The better qualities of gas coal command 9s. to 10s. per ton, secondary sorts being quoted as low as 6s. There is also a pretty good demand for household qualities, which, however, have been less in request during the last few days, probably because of the extreme mildness of the weather. With the exception of the coking collieries the pits in Durham generally are putting in pretty fair time. Coke is quoted variously from 9s. 3d. to 11s. per ton at the ovens, according to quality, but the quantity of coke produced is not nearly so large as it was some time ago. The fact is that the remarkable profits made in this department of the trade some three or four years ago, when it was impossible to purchase ordinary qualities at less than 35s. to 40s. per ton, has caused over production, and now there are upwards of 2000 coke ovens completely idle, and most of them likely to remain so for a capidarable, time to come

coke ovens completely idle, and most of them likely to remain so for a considerable time to come.

The make of pig-iron in the North of England for the month of November was 171,596 tons, or 6000 tons more than the make for November last year. Warrant stores have decreased by 1893 tons and makers' stocks by 2121 tons during the month.

REPORT FROM MONMOUTHSHIRE AND SOUTH WALES.

REPORT FROM MONMOUTHSHIRE AND SOUTH WALES.

Dec. 7.—There is again no new feature to record in the Iron Trade, and we shall soon see the termination of a year of unparalleled depression. There is no improvement to be noted in any branch of the trade except that there is generally more doing in pig. Since last report several notices of reductions at various works in the district have been given. The employees of Messrs. Townshend, Wood, and Co. have received an intimation that they will have to begin the year at a lower scale of wages, and a similar remark applies to the men engaged at the Ystalyfera Iron Company's establishment, the notice also extending to the colliers. Several works at Ystalyfera and in the immediate vicinity are entirely stopped. These reductions will, no doubt, be received with resignation by the men, who may think themselves lucky in obtaining employment while so many of their fellow-workmen are in enforced idleness. Fortunately the weather has proved mild up to the present, or the distress which is now said to prevail among many employees would have been far greater. At the steelworks business continues fairly active. The Times, speaking of two new ironclads at present in course of construction at Pembroke docks, takes occasion to remark on the excellence of the steel plates, &c., manufactured by Siemens's patent at the Landore Steelworks. The hulls of these ships are to be mainly constructed of this steel. After speaking of the various trials to which these plates were subjected, the "leading journal" says—"What is technically known as B. B. iron—best Bolton steel—and other plates were subjected to experiment; but, like Eclipse, Landore steel was first and the rest nowhere." The Tin-plate Trade shows no material change. Another strike has occurred at the Vernon Tim works, Briton Ferry, where the girls employed as picklers have gone out against a reduction. It is believed that by the introduction of machinery the firm will be enabled to dispense with the services of these employees—a less

Tinworks, Briton Ferry, where the girls employed as picklers have gone out against a reduction. It is believed that by the introduction of machinery the firm will be enabled to dispense with the services of these employees—a lesson to those who are ready to strike on the least provocation.

It is refreshing in the depressed condition of the staple trades of North and South Wales to be able to state that there is yet one industry which appears to be a remunerative pursuit at the present time. A new company has just been started, bearing the name of the Tan-y-Balch Lead and Copper Company (Limited). The first allotment of shares has been made, and the purchase it has been agreed shall date from August I last. It is stated that this arrangement will give the shareholders profits amounting to 3500%, and it will enable the company to declare an immediate dividend. The 90 fm. level has just been intersected, and the lode fully proved, and, when opened out, is expected to increase the profits to about 1500% per minth. This will be equal to a dividend of 30 per cent, per annum upon the capital. Few instances can be adduced of such a successful start of a mining company. The London offices are at 52, Lombard-street.

The Coal Trade is likewise materially unaltered; prices remain at such a low ebb that colliery proprietors can be making but small, if indeed in some cases any, profits. The milder weather experienced has caused the demand for house qualities to fall off. Patent fuel is a slow sale. For the new colliery at Cwmpennar, Mountain Ash, sinking operations will commence next spring. Mr. Charles Pugh is the contractor. The Ebbw Iron and Steel Company adjourned meeting has been held at Manchester. The formal resolution agreed to on Nov. I7, and which gives power to deal in certain ways with the capital, was confirmed. Now a resolution was passed to reduce the nominal capital of the company from 2,383,000% to 1,712,925%. This will, in turn, have to be confirmed at another extraordinary general meeting.

Notwithstandi

quested an interview with one of his trustees, and a deputation on the subject will meet him to-morrow. Should this not prove of any avail there is some talk of a scheme for constructing docks at Barry Island. At Newport the Harbour Commissioners have taken up the question of providing a public dry dock; and with this view a depus

alike

the

ng to a tax,

the en-

the character reports ley, conee mines rending verried ivered in Railroad

gate pro-this year

tation has been appointed to negociate with the Dry Dock Company, if possible, for a sale of their property. If successful, this scheme must prove of great benefit to the port.

REPORT FROM DERBYSHIRE AND YORKSHIRE

Dec. 7.—There has been no new feature to report with respect to the general trade of either Derbyshire or Yorkshire. The make of pig is about the same as it was last week. The coal trade is not so active as it has been, still the colliers are working very well. In the absence, therefore, of anything special, a reference to the coal traffic by railway to the metropolis, which is of no ordinary importance, may not be out of place, especially as the collieries in the two counties are greatly interested in it. From information received from the most reliable sources, there can be no doubt but the larger quantity of coal sent to London, both by rail and sea, during October caused a falling off in the tonnage forwarded last month. This was in no way caused by any deficiency in the power to supply, but entirely to the decline in the demand, for the present state of the iron trade is such as to have the effect of sending very large quantities of coal to the London and other markets. This has led to prices of the best house coal in the metropolis being now as low as they were during the summer months, and exactly what they were in December, 1871, before the colliers' wages were advanced to anything like what they now are, or the Mines Regulation Act had come into operation. Merchants have done all they could to keep up the price; but in the face of the very large supplies sent from all parts of the kingdom they have been unable to do so, consequently the London consumers have this week been able to purchase coal 2s. a ton less than they could in October last.

Amongst the leading railways engaged in the traffic, the Great Northern, which is principally fed by the collieries in South Yorkshire, shows to the worst advantage, although the coal has a high reputation in the London markets. The colliery owners in the dis-Dec. 7 .- There has been no new feature to report with respect t

Northern, which is principally fed by the collieries in South Yorkshire, shows to the worst advantage, although the coal has a high reputation in the London markets. The colliery owners in the district named have hailed with satisfaction the prospect of an analgamation taking place between the Great Northern and the Great Eastern, which would have given them direct access to the East End of London, and a second line from the coal field, which they have long been desirous of seeing accomplished, seeing that there are a great many new collieries being opened out, the produce of which will have to be taken by some railway or other. There has been no change in the carriage rate, although such has been frequently asked for by the coalowners between Sheffield, Barnsley, and Doncaster, so as to more evenly balance the charges with those and Doncaster, so as to more evenly balance the charges with those in more favourably situated districts, as well as by those by screws from the Tyne. The position of the various lines will be seen from the following figures, showing the tonnage taken by the various lines of railway during the past three months:

Sentamber October November

86	eptember	r.	October.	N	Tovember
MidlandTons	140,306		153,954		151,478
London and North-Western	115,181		134,761		133,624
Great Northern	75,725		98,8 9	********	80,790
Great Western	77,505		81,686		67,205
Great Eastern	46,509		55,796		73,615
London and South-Western	3.513		2,374		2,415
Other lines	1,191		3,034	********	1,098
Total	465.930		520.424		510.223

London by railway. Clay Cross take the lead, sending about 1000 tons a day, whilst a large tonnage is also sent from Langley Mill, Tibshelf, Eckington, Grassmoor, and Blackwell. The returns for the year, so far, may be considered satisfactory as compared with the corresponding period of last year, the increase being 269,839 tons. The Great Western shows to the best advantage, as will be seen from the figures below, showing the quantities carried during the two periods:—

1876.

	1875.		1876.
MidlandTons	1.504,804	*****************	1,432,781
London and North-Western	968,891	********************	1,074,6 6
Great Northern	909,687	***************************************	853,093
Great Western	513,183		715,846
Great Eastern			592,876
London and South-Western	31,094		35,987
Other lines	19,297	**********	20,527
Total	4 545 798		4 755 635

A singular confirmation is given to the recklessness of colliers. Wednesday last was the anniversary of that terrible Swaithe Main Colliery explosion last year, in which 145 lives were lost, and the event was marked by special services at the parish church, and at the local Weslevan chapel, both services being largely attended by the willows and orphans of those who perished. On the same day and in the same district, the Barnsley magistrates fined five colliers 2% each and costs, for endangering the lives of miners, by neglecting the set up props. Comment is needless. While such carelessness prevails, the miner's work must be beset with perils. prevails, the miner's work must be beset with perils.

REPORT FROM THE FOREST OF DEAN.

Dec. 7.—The improvement in the Coal Trade which we recently feported has not been maintained, a relapse to the previous dulness having all but occurred—i.e., we have almost got back again to stagnation. The comparatively mild, though exceedingly wet, weather not being all calculated to give and sustain an impetus to trade. There is now ac insiderably reduced output, and the colliers are far from being fully employed. The Messys Brain appear to be as lucky as any of the proprietors in securing trade, as the Trafalgar Colliery has been more regularly and fully employed than any pit in the Forest. Crump Meadow has been less fortunate than almost any colliery of importance in securing orders, and the men have had less work; but even at a greatly reduced output for many months past, there are what are considered heavy stocks; there being, it is said, nowards of 2000 tons now in stock at the colliery. Light Moor has also, it is said, out off the night turn on account of the unfavourable rection. In fact, dulnes and depression are felt and complained of In almost all directions. Indeed, trade of almost every kind is slack throughout the Forest. The tim-plate business is add to have somewhat improved of late in connection with one firm—Messrs. Thom is, of Lydhrock and Lydhroy, but Parkend tim-plate works have not restarted. The first rate is still at a low ebb, and stocks, although they are being reduced, it is only by a slow process. The Messrs. Crawshay and Sons, however, are looking forward and preparing for future development by the erection of a large additional enginements in powerfol pumping machinery for deep mining at Shakemante, which will be, it is averred, more powerful and of larger capacity than any machinery of the kind yet erected in the Forest. And having referred to this locality, it has reminded us of a dispute in regard to the boundaries of an old cod gale now being rewrited at the opposite hill of Mid Church, adjoining Stapleedge. The dispute is between the Messrs. Rifler and Gallop on the one side Dec. 7.—The improvement in the Coal Trade which we recently

tend to say who is right or who is wrong; we consider, however, that the gavellar has decided upon the surest method to ascertain who is right and who is wrong by directing a heading to test it, as that will enable the gaveller to decide when it is completed, as the method will determine whether a trespass has been committed or not, and whether any purloinings of coal have taken place or not; and the decision cannot be given until the data are complete for the purpose.

A new company has just been registered under the title of New Bilson, Cramp Meadow, Foxe's Bridge, and Central Collieries Company; capital to be 20,000°, raised in 10°, shares. Several local and other gentlemen are named as subscribers, and it is arranged that the directors shall be remunerated to the extent of 800°. A vear for their services. Messrs. Towe, Goold, Robert Parnell, and Charles Thos. Wilson, being named as the first. Of course we are not in a position to give any opinion as to the fedibility or otherwise of the scheme. Should the scheme, however, include good gales (Foxe's Bridge is a good one, but we do not know New Bilson, &c.), sound judgment, and energetic development, the company may look for a promising future. We fear the clay and brick company resently named is too much of a speculation. We wish all sound and judicious investments a prosperous future.

The Abergavenny, Ross, and Severn Bridge Junction Railways scheme, about which we expressed our dcubts in our last report, was not presented for Parliamentary register on Nov. 30, or such is our information, and, therefore, for the Bridge line. The other short runsare not needed, since there is already a line from that district to Hereford, and any coming from Abergavenny to Ross could go over the Ross and Mommouth line from the junction at Eyebrock to that have. The chort lines proposed to rear Hereford and Ross ledge only through und districts, gractly of farm villages, a could never pay, but the line from Abergavenny to the

Forest would be a central run, and supply a shorter cut to London and some other places. The Forest Bill is to be introduced again next session, but strange to say it has had no advertisement publicity in the local papers. The natives would not relish the shutting up by enclosure of their native wilds. Prices of local productions remain in state year.

PONTGIBAUD SILVER-LEAD MINING AND SMELTING COMPANY.

COMPANY.

The annual geeneral meeting of this company was held in Paris, on Nov. 30, when the reports and accounts for the year ending June 30 last were received and approved. The profit on the working had amounted to 26,553/. 7s. 3d.; adding to this the sum of 4012/. 14s. 9d., received for interest and discount, the total gross profit was 30,566/. 2s. From this amount the various sums written off plant, &c., and royalties absorbed 5694/. 3s. 6d., leaving the net profit for the year 24,871/. 18s. 6d. The dividend for the year was fixed at 60 frs. per share, which is the largest ever paid by this company. The sum of 20 frs. was paid on account of this dividend in June last, and the balance of 40 frs. (or 1/. 11s. 1d.) per share is now in course of payment, as will be seen by an advertisement in this day's Journal. The report of Messrs. Taylor (the engineers in chief of the company) stated that the important work of sinking the great trial shaft at Roure had advanced uninterruptedly, and it was hoped it would be completed to the depth of 150 meters below the adit by the end of this year. The returns of ore from the company's mines had been maintained at the rate of nearly 275 tons per month without any diminution of the reserves. The work done both in smelting and desilvering had been in every respect satisfactory. After the ordinary general meeting, an extraordinary general meeting was held to consider such modifications in the "statutis" as will be suitable for the company when reconstituted under the new limited liability laws of France, for which the necessary steps are being taken.

[For remainder of Meetings seeto-day's Supplement.]

[For remainder of Meetings see to-day's Supplement.]

MINING NOTABILIA

EXTRACTS FROM OUR MINING CORRESPONDENCE.

FETTRACTS FROM OUR MINING CORRESPONDENCE.

SOUTH WHEAL CHOFTY.—It is fewed that this mine has been a great disappointment to the adventurers. Ample evidence of this, indeed, has been seen by the severe fluctuations in the price of shares. At one time they were quoted as high as 120 d a share. Regular sales of tin, copper, and arsenic have taken place, but not sufficient to pay costs. Is it owing to the expenditure being so great?

ST. NEOT, CORNWALL.—At the present time there is not a single mine working in this district. It is not long ago that Ambrose Lake, Wheil Northwood, Hobb's Hill, Tregeagle, and Tremaddock and other mines were at work. The last-mentioned mine was worked by a private company, but the materials were sold a few weeks ago. Hobb's Hill, or New Hobb's Hill, it is said will be resuscitated shortly if the metal market continues to improve, the plant thereon being in good order. St. Noct, it might fairly be said, is a tin district, and considerable quantities of tin have been found therein. It is a beautiful grantic district, but no discoveries of late have been sufficient to pay working cost, and with metal at the present low price affords no encouragement to speculators and investors to spend their money.

their money.

EAST CARADON.—It is pleasing to observe a report in the Journal last week from the agents, but it affords the adventurers no encouragement. Should the present company abandon it the South Caradon adventurers would undoubtedly innex it to their sett, as they did in the case of West Caradon.

SOUTH DOLCOATH.—This valuable property, which is situated between Tine oft and West Basset Mines, has been purchased by a between Tinc oft and West Basset Mines, has been purchased by a London gentleman, who intends commencing operations forthwith, and a company has been formed to work it with a capital of 6000%, in shares of 1% each, which is considered ample to bring it into a dividend-paying state, the whole of the machinery and plant being on the mine fixed, and in working order, with shafts sunk, levels driven, and ore ground laid open. The proprietor has agreed to take the whole of his interest, and transfer the property free from all liabilities for 250%, in fully paid shares, leaving 350% for developing the mine. The management of the mine is placed in the hands of Capt. Wm. Pascoe, of Camborne. Prospectures and reports can be obtained by applying to Mr. Wm. Ward, Crosby House, London, where a plan of the mine and samples of the ore can be seen, and other information obtained.

THE OREGON HYDRAULIC GOLD. - The Oregon Sentinel says—From a gentleman just from Galice Creek we learn the following concerning the mines in that section: The English company are now working the Reed diggings with hydraulic, and have about completed their new ditch 2½ miles long, and will probably turn in the water on the Those claims this week. Both of these claims pay well, and the company owning them will doubtless get large returns this winter.

The Midland Railway.—At the annual dinner of the engineers connected with the Midland Railway at Derby, held recently, the chairman gave, as an instance of the magnitude of the company, the mileage of railway, canals, and tramways, being, in round numbers, about 1500, the coal consumed for locomotive power amounting annually to 600,000 tons, and for the conveyance of passengers and goods there were 31,000 vehicles. These in line would form a train the rear van of which would be in St. Paneras Station, and the front van six miles north of Derby, with 11½ miles of locomotives in front; and the number of men employed to work the line is upwards of 35,000

WANTED, a RE-ENGAGEMENT as MANAGER by a Practical Mine Agent, of six years home and fifteen years. Foreign and Calculations Mine Agent, of six years home and fifteen years Foreign and Colonia experience in GOLD, SILVER, TIN, LEAD, COPPER, IRON, and PHOS PHATES of LIME. Inspections of Mining Properties undertaken, and Estimate carefully made. A position foreign preferred. Speaks Spanish. First class re-

Address, in first instance, "Metal," MINING JOURNAL Office, 26, Fleet-street, London, E.C.

WANTED, a SITUATION as ASSISTANT in a MINING ENGINEER'S OFFICE, or ASSISTANT MANAGER of large MINES and WORKS—the Colonies preferred. The Advertiser is an Associate of the Royal School of Mines, and has had experience in Assaying, Underground Surveying, and the executing of Mining Plans. Speaks French, German, and Spanish. First class testimonials can be given from former employers. Address, "M. E.," Morley's Library, Forest Hill, S.E.

TO MINING COMPANIES. WANTED,—The Advertiser, a PRACTICAL MINER of eighteen years experience at home and abroad, will shortly be disengaged, and desires a SITUATION as MINE AGENT, which position he has filled for the past seven years. Is a thoroughly practical Miner, Dialler, Mapper, Assayer, and analyser, and understands Mining Correspondence and Accounts. Unexceptionable references. Address in first instance, "Captain," MINING JOURNAL Office, 26, Ficet-street, London, E.C.

WANTED, SHARES in ALMADA, COLORADO TERRIBLE, FLAGSTAFF, JAVALI (preference and ordinary), NANT.Y.GLO AND BLAINA (preference), OLD TREBURGETT, PARYS, PESTARENA, PLYNLIMMON, TECOMA, and WEST GOGINAN MINES. State number and price for cash to "Mr. B.," MINING JOURNAL Office, 24, Fleet-street, London, E.C.

WANTED, -A SECOND-HAND BLAKE'S STONE BREAKER n, 100 KSIUPS.

7. TOCK R., to be sent to JAMES LEITH, Public Accountant, 85, Gracechurch
2st, London, E.C.

PARTNER WANTED, in a PROFITABLE METALLURGICAL BUSINESS. Capital required, £5000.
Address, "Metal," MINING JOURNAL Office, 16, Fleet street, London, E.C.

TENNESSEE, ALABAMA, AND GEORGIA.

CAPITALISTS DESIROUS of INVESTING in MINERAL or AGRICULTURAL LANDS in these STATES may obtain any information desired, by addressing the undersigned, or consulting E. HAGUE, Sheffield.
WM. FORDHAM, Land Agent and Surveyor, Chattanooga, Texas, U.S.

TO COLLIERY, LAND, AND MINERAL PROPRIETORS.

PROPRIETORS.

A MINING ENGINEER AND SURVEYOR is prepared to UNDESTAKE QUARTERLY, or other, SURVEYS of COLLIERIES, IRON MINES, SLATE QUARTERS, LAND, &c., &c. Reports carefully made for intended purchasers. Estimates for all colliery work upon the latest principles furnished. Terms moderate, and first-class references. Address, "F. G. S.," MINING JOURNAL Office, 28, Fleet-street, E.C.

VALUABLE PROPERTIES FOR DISPOSAL.

PRACTICAL MINER, of twenty-eight years' experience, has
EXPLORED for the last six months, and can introduce to CAPITALISTS
PROP ORE (in Limestone or Slate).

GOAL.
LEAD.
GOPPER.
GOPP

COPPER.

Principals only, or their sollcitors, need apply.

N.B.—No introduction fee required, remuneration only looked for in the event of any benefit accruing to the speculators.

Address to Mr. W. S. BURTON, Ireby, Mealsgate, Carlisle.

MR. W. TREGELLAS, 122. BISHOPSGATE STREET
WITHIN, E.C.,
Deals in all descriptions of Stocks and Shares at close market prices.

IN THE MATTER OF THE COMPANIES ACTS, 1862 AND 1867.

DERWENT MINES COMPANY (LIMITED).

DERWENT MINES COMPANY (LIMITED).

THE CREDITORS of the ABOVE-NAMED COMPANY are required to SEND their NAMES and ADDRESSES and the PARTICE.

LARS of their DESTS or CLAIMS to ROBERT PALMER HARDING, the Englished company, at \$5, 0ld Jewry, in the City of London or before the sind day of December instant, after which day the said Liquidator will PROCED to DISTRIBUTE the ASSETS of the said company among the parties endised attor shall then have had notice, and to close the said liquidation in manner provided by the said first-mentioned Act.

R. P. HARDING, Liquidator, Dated this 5th Jay of December, 1878.

THE DIRECTORS OF THE NATIONAL PROVINCIAL BANK OF ENGLAND hereby give notice that a HALF-YEARLY DIVIDED at the rate of EIGHT PER CENT. PER ANNUM, and a HALF-YEARLY BONUS of SIX PER CENT., will be PAYABLE on the Company's Stock, on a first the 8th day of January next, when the Dividend and Bonus Warries and after the 8th day of January next, when the Dividend and Bonus Warries and after the 8th day of January next, when the Dividend and Bonus Warries and after Brauches.

The Transfer books will be closed on and after Saturday, the 9th instant, until the Dividend and Bonus become payable.

By order of the Court of Directors,

By order of the Court of Directors,

will be closed on nus become payable.
nus become payable.
y order of the Court of Directors,
W. HOLT,
R. FERGUSSON,

Managers,

THE CAPE COPPER MINING COMPANY

Notice is hereby given, that at a MEETING of the Directors of this company,

Notice is hereby given, that at a MEETING of the Directors of this company, held to-day, it was resolved,—
That a DIVIDEND of TWENTY SHILLINGS PER SHARE, free of income tax, be and is hereby declared, PAYABLE on the 23rd day of December instant, to the shareholders on the books of the company on the 18th instant, and that the Transfer-books will be closed during the said 18th instant.

By order of the Board, J. C. LEAVER, Secretary.

6, Queen-street-place, London, December 6th, 1876.

PONTGIBAUD SILVER-LEAD MINING AND SMELTING COMPANY.

Notice is hereby given, that at the ANNUAL GENERAL MEETING, held in Paris on the 30th ultimo, the DIVIDEND for the year 1875 1876 was fixed at SIXTY FRANCS PER SHARE. The sum of 20 frames per share was paid on account of the same on the 8th June last, and the behave of 40 frames per share will be PAID in exchange for the Fifteenth Dividend Coupon on and after the 5th day of December instant, at the offices of the company, No. 15, Rue de Châteaudun, Paris, or at the London Agency, No. 6, Queen-street-place.

The payments made in England for such balance of Dividend will, after allowing for French tax and exchange, be at the rate of £1 lis. 1d. per share, subject to the deduction of income tax.

JOHN TAYLOR AND SONS.

London Agency, No. 6, Queen-street-place, E.C., Dec. 2, 1876.

T I N T O C O M P A N Y

SEVEN PER CENT. MORTGAGE BONDS.

SECOND HALF-YEARLY DRAWING, PAYABLE 18T JANUARY, 1877,

Notice is hereby given, that the following NUMBERS OF BONDS for PAY.

MENT AT PAR on the 1st January next, were DRAWN on the 1st Instant, at
the offices of the Societé Générale de Crédit Industriel et Commercial, Paris-viz.:

Nos. 1,901 to 2,000 = 100 Bonds,

2,201 to 2,300 = 100 ...

44,001 to 47,000 = 100 ...

24,001 to 2,700 = 100 ...

37,101 to 27,200 = 100 ...

47,501 to 47,906 = 100 ...

37,101 to 27,200 = 100 ...

37,101 to 27,500 = 70 ...

Total 670 Bonds of £20 or 500 feanes each

Offices of the Company, 2, Copthall Buildings, London, E.C., 2nd December, 1876.

TANKERVILLE MINING COMPANY
Notice is hereby given, that the Directors of the Tankerville Mining Company
(Limited) have THIS DAY DECLARED a DIVIDEND of FIVE SHILLINGS
PER SHARE (free of income tax), PAYABLE on and after Dec. 30.
Notice is also hereby given, that the Transfer Books of the company will be closed
from the 18th to the 30th of December, both days inclusive.

By order of the Board,
By order of the Marchison, London Manager and Secretary.

8, Austinfriars, London, November 29, 1876.

DICK AND STEVENSON, AIRDRIE.—
TANK LOCOMOTIVES, 8 in. to 14 in. cylinders, always ready or in progress. Also, various sizes of WINDING and PUMPING ENGINES.
ONE extra strong LOCO., 10½ in. by 20 in., 15 tons, in working trim; cm by in steam on rails at a day's notice. Price and specification on application.

THE BIRMINGHAM WAGON COMPANY (LIMITED MANUFACTURE RAILWAY WAGONS of EVERY DESCRIPTION, for HIRE and SALE, oy immediate or deferred payments. They have also wagon in hire capable of carrying 6, 8, and 10 tons, part of which are constructed up ly for shipping purposes. Wagons in working order maintained by contract. EDMUND FOWLER, Managing Director
WAGON WORKS,—SMETHWICK, BIRMINGHAM.

Loans received on Debenture; particulars on application.

PATENTS FOR INVENTIONS
AT HOME AND ABROAD.
REGISTRATION OF DESIGNS, TRADE MARKS, &c. MR. ERNEST DE PASS,

PATENT AAD REGISTRATION (Successor to the late Mr. M. Henry), FLEET CHAMBERS, 68, FLEET STREET, LONDON.

A Pamphlet of Information, containing full particulars, forwarded, post free

FOREIGN BONDS.

FOR RELIABLE INFORMATION ON FOREIGN STOCKS, consult our MONTHLY PRICE LIST.

December Edition ready (post free) on application to—

MESSES, JOHN ABBOTT AND CO., STOCK AND SHARE BROKERS,

4 AND 5, PALMERSTON BUILDINGS, LONDON, E.C.

INVESTMENTS.

SPECIAL SELECTION OF SHARES MOST ADVISABLE TO PURCHASE, soon to be TWICE their PRESENT PRICE, then having to go much higher to reach their value; also, Shares at present paying well on per-

dress, Mr. J. H. HITCHINS (who has had 40 years' experience), Gresha le, London, E.C. CONSOLS, RAILWAY STOCKS, FOREIGN BONDS, and ever description of SECURITIES DIRECTION BONDS, and ever

ONSOLS, RAILWAY STOCKS, FOREIGN BONDS, and every description of SECURITIES PURCHASED and SOLD, for cash or secont, by Messrs. THORNYCROFT AND CO., 30, BROCKLEY BUILDINGS, SOUTH JOHN STREET, LIVERPOOL. SPECIAL BUSINESS IN SHARES all the principal HOME and FOREIGN MINES, in connection with which classed investments the experience of nearly half a century enables Messrs. Thossy CROFT and Co. to offer sound advice, based on reliable information.

A selected list of DIVIDEND PAYING SECURITIES and INVESTMENTS FOR A RISE forwarded on application.

Bankers: The Adelphi Bank, South John-street, Liverpool.

INTEREST — HIGH AND LOW. INVESTMENTS.

FOR INFORMATION concerning DIVIDEND-PAYING SECURITES of every description, and ACCURATE PRICES of STOCKS and SHARES, with other invaluable data—see JOHN B. REYNOLDS'S MONTHLE and SHARES, with other invaluable data—see John B. Reynolos's MONTHAL SHARE LIST, and SELECT LIST, forwarded gratis on application to John B. REYNOLOS, 70 and 71, Bishopegate-street Within, London, E.C.

MR. W. F. STANLEY, MATHEMATICAL INSTRUMEN
MANUFACTURER TO H.M. 'S GOVERNMENT, COUNCIL OF INDIA
SCIENCE AND ART DEPARTMENT, ADMIRALTY, &c.
MATHEMATICAL, DRAWING, and SURVEYING INSTRUMENTS of every
description, of the highest quality and finish, at the most moderate prices.

ENGINE DIVERGE TO THE TRAINED.

ENGINE DIVIDER TO THE TRADE.

ADDRESS-GREAT TURNSTILE, HOLBORN, LONDON, W.C.

Preparing for the Pre THE THREE RAPHAELS—PHIL, JOE, AND ABE.

This will present the incidents of this peouliar people. The vivaelty some of the leading pages will illustrate what we are to expect, more especially the great Eastern Question.

The work, we are given to understand, will be dedicated to Lord Braconstrict.

en to understand, will be dedicated to Lord BEACO

IN TI IN TH

DEC.

WAYNE

MESSR instr London, E.C precisely, in VALUABLE The Gadlys therein, and the the remainds term of 63 y thought for annual true the fifth oper annual Tyr Evan with the pit s motive railway.

March, 184!, simum mine

TO CA TO BE S

MESSI Are OPEN to

FOR SA ROYAL

ME FOU PALL M FAVOUR HERE is

LOCO OR MAIN LOCOMOT

ANALYSI PERCY C. BLAE

> ADVI C GENEI

> ADVERTISEM LONIAL NEV

ders his services CHONTALES (

MR. E. J. No. 30, G 88 in St. Patri t Van, Pennan untain, West G MESSRS

METROPOLIT. Bar R. ASSA

ONEY

FREEHOL ONAL SECU Pess, THORNY Ockley Buildi

In the High Court of Justice-Chancery Division.

VICE CHANCELLOR MALINS.

IN THE MATTER OF THE COMPANIES ACTS, 1862 AND 1867, IN THE MATTER OF WAYNE'S MERTHYR STEAM COAL AND

IRON WORKS (LIMITED).

GLAMORGANSHIRE.

WAYNE'S MERTHYR STEAM COAL AND IRON WORKS (LIMITED).

B; Order of the High Court of Justice.—Important Sale of Extensive Leasehold Estates, known as the Gadlys Collieries, Blast Furnaces, Iron Works, and Fire Brick Works, situate at Aberdare, in the county of Glamorgan.

ESSRS. JOSEPH COOKSEY AND SON have received instructions to SELL, BY AUCTION, at the Mart, Tokenhouse-yard, lon, EC, on We Insaday, the 20th day of December, 1876, at One o'clock leely, in Ook Lot, subject to conditions, the above-mentioned HIGHLY MARKED LEASEHOLD PROPERTY, comprising—
6 Gatlys Estate, consisting of farm lands, lands sub-let on building leases, es offices, workmen's dwellings, blast furnaces, ironworks, pit shafts, collegations, than the sub-let on building leases, plant and crections, lands used for colliery purposes, tramways, locomoting plant and erections, tands used for colliery purposes, tramways, locomoting, is and three plots of surface land, without minerals, containing together in the plots of surface land, without minerals, containing together in the case of a paceurs, or thereabouts; parts of Hirwain Common, case 3 moons 34 peaceurs, or thereabouts; parts of Hirwain Common, case 3 moons 34 peaceurs, or thereabouts; parts of Hirwain Common, case 3 moons are contained to the case of the containing together in the case of the case of the containing together in the case of the containing together in the case of the cas

eem of 6: years, from the 20th March, 1806, subject to certain mine rents mentioned in the lease; minimum rent of mines, including rent of entire surface, 160 per annum.

The unwrought coal, ironstone, fire-clay, and other minerals in the Tyr Fry and Tyr Evan Bach Traws estates, containing together 44 ACRES 0 ROODS 35 PERCHES with the pit sinfer, scalilery plant and erections, fire-brick works, tramways, loconstive railways thereupon, held under lease for a term of 60 years from the 25th March, 1841, subject to the royalties and other payments therein mentioned; minimum mine rent, £150 per annum.

The unwrought coal, ironstone, fire-clay, and other minerals in the Cwm, Llwynbelg, Duffryndare, Dyllas, Tyr Rhos, and other estates, containing together 274.2 g. R. 17 p., or thereabouts, held under various leases, part of which expire that the years 1900 and 1910, and the remainder about the year 1925, subject to the royalties mentioned in the various leases, but aggregate minimum mine rent being £18 per annum.

The total area of minerals in the several leaseholds is 1288 A. 3 R. 12 p.

All the loose stocks, stores, tools, implements, and office and household furniture of and belonging to Wayne's Merthyr Steam Coaljand Iron Works (Limited) in and upon the above-mentioned premises, will be included in the sale.

The property is intersected by, and in direct communication with, the Aberdare and Dare Valley branches of the Taff Vale Railway and the Vale of Neath branch of the Great Western Railway also pass through the property is the salivay, contiguous to the Aberdare Stations, connecting it with the shipping ports of Carriff, Swansea, and Newport. The Dare and Merthyr backs of the Great Western Railway also pass through the property of the Great Western Railway also pass through the property of the Great Western Railway also pass through the property of the Great Western Railway also pass through the property of the Great Western Railway also pass through the property.

Read The Property is intersected by, and in di

Weish iron.
urther particulars apply at the office of the company, 7 and 8, Great Winstreet, Broad street, City; Messrs. Cope and Co., solicitors, 4, VictoriaWestminster; Messrs. JOHNSONS, UPTON, BUDD, and ATHEY, solicitors, 20,
friers, City; HENRY DEWER, provisional official liquidator; DELOITTE,
, GRIFFITHS, and Co., 4, Lothbury, London.

TO CAPITALISTS OR PROMOTERS DESIRING TO

MAKE MONEY.

MAKE MONEY.

MAKE MONEY.

BE SOLD, a COLLIERY ROYALTY in NORTH WALES, close to rail or shipping port; several shafts partially sunk; coal fully proved for RESAMS of good HOUSE and STEAM COALS, in an area of upwards of goarder, where under scans (including Cannel) have been proved in addition to heabove; so that eminent engineers state that the available coal in this royalt, have been pretthick.

feet thick.

notice will arrange to sell the entire to an individual or company for

goost him, dividing all profit made above, which, even in a normal state
trade, must be large. Certain and safe surveys by eminent Stafford

Welsh englineers have already been made.

Mr. WATSON, 27. Hamilton square, Birkenhead.

MANGANESE AND SULPHUR ORES.

ESSRS. WALTER BUTLER AND CO.
MINERAL MERCHANTS, AGENTS, AND BROKERS,
PEN to TREAT for the PURCHASE of LARGE QUANTITIES of the
Eor other MINERALS, to be delivered in Liverpool.
Res., with particulars, stating quality and price, to Leith Offices, Moor-

FOR SALE, BY PRIVATE CONTRACT, a 60-inch cylinder CORNISH PUMPING ENGINE, 9 ft. stroke, equal beam, with first piece simain rod attached, with TWO BOILERS of 11 tons each, equal to new. Further particulars will be supplied on application to Mr. W. GATH, Accountant, 2 Deconshire street, Carlisle.

ROYAL SCHOOL OF MINES ANNUAL DINNER. THE FOURTH ANNUAL DINNER WILL TAKE PLACE at the PALL MALL RESTAURANT, REGENT STREET, on FRIDAY, Dec. 15.

is, apply to the Honorary Secretaries, 28, Jermyn-street, S.W.

FAVOURABLE OPPORTUNITY FOR A PARTNER.

TAVOURABLE OPPORTUNITY FOR A PARTNER.

THERE is an OPENING now for a THIRD PARTNER in a very compact and eligible IRONWORKS, where puddling, rolling, &c., are carried to, on a moderate scale. Situation for coal, pig-iron, and labour is all that can be seired. There is a market for the produce on the spot, and the present partners are in every way such as any gentleman would be glad to be associated with. The machinery is new and quite abreast with all modern improvements, and steam-power ample and perfect: £5000 will be required to join.

Application to be made by letter, marked "Ferrum," to the Editor of the London Iron Trade Exchange, 82 and 83, Cannon street, London.

LOCOMOTIVE TANK ENGINES

N S

KS,

MEN INDIA, of ever

ABE.

SFIELD

FOR MAIN LINE TRAFFIC, SHORT LINES COLLIERIES, CONTRACTORS, IRONWORKS, MANUFACTORIES, &c., from a superior pedification, equal to their first-class Railway Engines, and special: \(\nu^2 \) \(\nu^2 \) apted to harpeurves and heavy gradients, may always be had at a short notice from \(-\nu^2 \).

MESSES. BLACK, HAWTHORN, AND CO., LOCOMOTIVE, MARINE, AND STATIONARY ENGINE WORKS, GATESHEAD-ON-TYNE.

ANALYSES made of COAL, COKE, CLAY, ORES, METALS, &c., by

PERCY C. GILCHRIST, Assoc. Royal School of Mines, F.C.S. BLAENAVON IRONWORKS, PONTYPOOL, MON.

 ${\it Charges\ moderate-Accuracy\ guaranteed.}$

ADVERTISING-ENGLISH, FOREIGN, COLONIAL. ESTABLISHED 1846.

C. H. MAY AND CO.,

GENERAL ADVERTISING OFFICES, 78, GRACECHURCH STREET, LONDON, E.C.

DVERTISEMENTS received for insertion in all ENGLISH, FOREIGN, an LONIAL NEWSPAPERS.

CHARLES BAWDEN, POLDICE HOUSE,

ST. DAY, SCORRIER, CORNWALL,

ST. DAY, SOURKEER, CORN WALL,

dershis services to capitalists seeking investments, and to inspect and report on
all kinds of Mining Properties at home and abroad.

CHONTALES GOLD MINE (Nicaragua). — Valuable information as to the
resent state and future prospects of this property, together with copy of an inspendent report, to be had on application, accompanied with P.O.O. for £1 1s.

ESTABLISHED TEN YEARS.

R. E. J. BARTLETT, STOCK AND SHARE DEALER, No. 30, GREAT ST. HELEN S. LONDON, E.C., has SPECIAL BUSI BS. Patrick, Wheal Whisper, Pennerley, South Tolcarne, East Lovell but Van, Pennant, East Caradon, West Craven Moor, Lead Hills, Minera, Parystonniain, West Godolphin, and Chapel House shares.

METROPOLITAN BUILDINGS, 63, QUEEN VICTORIA STREET, E.C.
Bankers: London and Westminster Bank, Lothbury.

M R. J. S. M E R R ASSAYER AND ANALYTICAL CHEMIST, SWANSEA.

ONEY ADVANCED, in sums of £500 and upwards, on FREEHOLD or LEASEHOLD PROPERTY, SHARES, STOCKS, and Address, Thorsycsoff and Co., Accountants, Mortgage Brokers, Valuers, &c Brokley Buildings, South John-street, Liverpool.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

THE BAINT DAY FIRE-BRICK AND CHINA-CLAY COMPANY (LIMITED) VERSUS CORFIELD.

IN RE WEST ROSKEAR MINE.

TO BE SOLD, pursuant to an Order made in the above Cause, dated the 2nd day of November, 1876, by PUBLIC AUCTION, at the WEST ROSKEAR MINE, situate in the parish of Camborne, within the said Stannaries, on Wednesday, the 18th day of December next, commencing at Eleven o'clock in the forenoon, in such lots, and subject to such conditions as shall be then and there stated, the undermentioned

MINING MATERIALS AND EFFECTS, viz:-

MINING MATERIALS AND EFFECTS, viz:—

ONE ROTARY ENGINE, 2i in. cylinder, 6 ft. stroke, with fly wheel and boiler, 11 tous; steam capstan (not erected), iron shift, wilh centre pieces for eage, cog wheel, crank and blocks, balance bob and sweep rods; 24 fms. 9 in. wood rods; rod plates and connection; four stands and shieves; balance bob at shaft; shears and two shieves; shaft tackle; sundry iron and brass weights; winch chain; 13 fms. 17 in. drawing lift; 26 fms. 7 in. plunger lift; two stands and flat pulleys; horse whim; 5 cwts. ½ in. chain; 22 fms. railroad and stands; tram wagons; wire rope and chain; two kibbles; 17 in. 9 ft. pump; 17 in. chack seat piece; 13 in. 11 ft. working barrel; 5 ft. water wheel; miners' tools; dressing tools; 18 fms. 9 in. rods; 70 fms, launders and stands; two whim skips; a quantity of new and old iron and timber; account house furniture; and other effects in general use in mines.

mines.

The above may be inspected on application to the Bailiff of the Court in charge thereof at the Mine, and any further information obtained from —

MR. JOHN R. PAULL, Plaintiff's Solicitor, Truro.

Dated Registrar's Office, 30th November, 1876.

BY ORDER OF THE LIQUIDATOR. GLAMORGANSHIRE.

RETHE SOUTH LIANHARRAN COLLIERY COMPANY (LIMITED).

TO COLLIERY PROPRIETORS, INVESTORS, AND OTHERS.

MESSRS. BROAD, PRITCHARD, AND WILTSHIRE are instructed by the Liquidator to SELL, BY AUCTION, at the Mart, Token house-yard, London, E.C., on Tuesday, December 12, 1876, at One o'clock precisely the VALUABLE LEASE of the

SOUTH LLANHARRAN COLLIERY COMPANY

SOUTH LLANHARRAN COLLIERY COMPANY
(LIMITED),
Situate at LLANHARRAN, near LLANTRISSANT, in the county of GLAMORGAN. Together with the whole of the COSTLY and APPROPRIATE PLANT
and MACHINERY, in One Lot.
The area extends to about \$\frac{1}{2}\text{VEN HUNDRED ACRES,}\$ and the site possesses
a frontage to a main road, in addition to which a branch railway has been constructed to connect the colliery with the Great Western Railway. The property is
believed to contain the celebrated "Cribwr" Seam, so successfully and profitably
worked by the adjacent owners.
Possession will be given on completion of the purchase.
May be viewed, and all particulars obtained of W. Dunn, Esq., Eagineer,
Llanharran.

May be viewed, and an particulars considered the Royal Hotel, Cardiff; of Printed particulars and conditions may be had at the Royal Hotel, Cardiff; of WILLIAM LIDDALL, Esq., Liquidator and Public Accountant, No. 15, Union-court, Old Broad-street, E.C.; of Messrs, COPE and Co., Solicitors, No. 4, Victoria-street, Westminster, S.W.; of Messrs, MURLY and Sons, Solicitors, Bristol; at the Mart; or of the Auctioneers, 7, Queen-street, Cheapside, E.C.

NEW PEMBROKE MINE SP. BLAZEY, CORNWALL,

MEW PEMBROKE MINE, SP. BLAZEY, CORNWALL.

MESSRS. HANCOCK AND SONS have received instructions to set. Bell, BY PUBLIC AUCTION, on Thursday, the 14th day of December next, at NEW PEMBROKE MINE, in the parish of St. Blazey, in the county of Cornwall, the WHOLE of the VALUABLE

MACHINERY AND MATERIALS thereon, comprising:—
ONE 80 in. cylinder PUMPING ENGINE, 12 ft. stroke in the cylinder, 10 ft. stroke in the shaft, with a large cast iron balance bob, and four 12 ton boilers, in good condition.

ONE 80 in, cylinder PUMPING ENGINE, 12 ft. stroke in the syninder, 10 ft. stroke in the shaft, with a large cast iron balance bob, and four 12 ton boilers, in good condition.

ONE 25 in. cylinder DRAWING ENGINE, with good fly wheel and perpendicular iron cage, with two boilers, about 20 tons.

ONE 20 in. cylinder horizontal STAMPING ENGINE, with three iron stamps axies, carrying 32 heads, and two boilers, about 20 tons.

ONE 20 in. cylinder horizontal WHIM ENGINE, with a good fly wheel, horizontal cage, and one boiler, about 5 tons.

ONE 30 in. cylinder STAMPING ENGINE, with a heavy fly wheel; one 22 in. ditto, and no fly wheel; two spare boilers, about 10 tons each; one 30 fm. 16 in. plunger pift, complete; one 20 fm. 15 in ditto; one 12 fm. 15 in. ditto; one 25 fm. 11 in. ditto; one 12 fm. 13 in. drawing ift, complete; one 12 fm. 10 in ditto; one 11 ft. 12 in. working; one 10 ft. 9 in. ditto; one 12 ft. 12 in, plunger pole; one 9 ft. 10 in. ditto; one 6 ft. 9 in. ditto; one 6 ft. 8 in. ditto; three pairs of high shears; a powerful 10 arm capstan, with fron axle and sockets; one other ditto; about 50 tons of railroad iron; one 13 fin. capstan chain; 13/40 in., 13-16tts 3/4 in., and 3/40 in. ditto; other chains of various sizes; bevels, &c.; 90 fms. of 3/4 in. iron rods, with loops and plns; one 3/4 in. steel wire ropes; about 130 fms. of 10, 12, 13, and 14 in. main rods; large iron skips; shaft gigs; tram wagons; flat rod shieves; shaft rollers; horse whim and other pulleys; two 9 ft. shieves; machine and other kibbies; hammered and rolled strapping plates; a large quantity of wrought and cast scrap; bolts and burs; staples and glands; yokes; rod and fiange plns; screwing stops and plates; iron stave ladders; the contents of carpenters' shop; smiths' shop and storehouse; and numerous other things in general use on mines.

Sale to commence at Eleven o'clock A.M.

use on mines. Sale to commence at Eleven o'clock A.M.

The carriage of materials from the above mine to seaports or railways will be light, being only about one mile from the port of Par, and about one mile and a half from the Comwall and Corawall Minerals Railway Stations.

To view, and for further information, apply to Capt. F. PUCKEY, on the Mine; Mr. J. POLKINGHORSE, Par Office, Par, or to the Auctioneers, St. Austell.

Dated Sydney place, St. Austell, 28th November, 1876.

DECEMBER 19TH, 1876. AN UNUSUALLY GOOD LOT OF MINING MACHINERY AND MATERIALS FOR SALE.

MR. H. V. NEWTON, Auctioneer, Valuer, &c., Polstrong Farm. Camborne, is favoured with instructions from the adventurers of the undermentioned Mine to SELL, BY AUCTION, on Tuesday, the 19th December, 1878, at Twelve noon precisely, at NEW ROSEWARNE MINE, in the parish of Gwinear, the WHOLE of the VERY

VALUABLE MACHINERY AND MATERIALS, vis.:

ENGINE SHAFT.

ONE 66 in. cylinder PUMPING ENGINE, 10 ft. stroke, with TWO BOILERS, 11 tons each; iron balance bob; 10 arm capstan; shears, with shieves and brasses; 80 fms. of 13 in. and 12 in. pitch pine main rods; 18 pairs of faggotted iron strapping plates; 216 in. H pieces; 2 16 in. top doorpieces; 2 16 in. flat bottom wind-bores; 216 in. plunger poles, with stuffing boxes and glands; 2 17 in. pole cases, 12 ft. long; 54 16 in. pumps; 1 15 in. clack seat piece; 1 15 in. working barrel, 14 ft. long; 1 14 in. windbore; 170 fms. steel wire capstan rope; horse whim and shaft tackle; 18 pairs of faggotted iron strapping plates for main rods; 2 tons of rod pine and flange bolts; pump and door rings; 2 tons of large staples and glands; a quantity of small ditto; 4 pairs of best fagotted caps; 13 in. and 15 in. buckets, prongs, and joints; 17 fms. wood bucket rods, 6 by 6, with plates, joints, &c.; 60 fms. good iron stave ladders.

Bickford's Shaft.

joints, &c., 30 fms, good iron stave ladders.

BICKFORD'S SHAFT.

1 balance bob; capstan and shears; 150 fms. 8 in. rods; 5 tons bucket rods; 40 pairs strapping plates for 8 in. rods; several large and small shieves and rods; 10 in. working barrel; 1 10 in. clack seat piece; 110 in. windbore; 1 2 11 in. pumps; 6 10 in. pumps; 9 in. and 10 in. bucket prongs, &c.: 120 fms. 1 in. steel wire rope; whim kibbles, skips, chain, &c.; 2 iron tram wagons; ½ ton of rail irons; steam whim cage and driving wheel, &c.

TIN FLOORS.

3 centre head and 3 hand buddles; a good water wheel and driving gear; kieves, sieves, &c.: 20 rag frames; 1 hand ditto; 70 fms. of 13 in. launders and stands; 200 fms. of 9 in., 8 in., 7 in., and 6 in. launders, with stands, hutches, &c.; a splendid tin hutch, 15 ft. long, 5 ft. high, 4 ft. 8 in. wide; beam, scales, and weights; weighing stand, weights; weighing stand, wheelbarrows, &c.; several wood sheds.

SMITHE SHOP.

Smith's tools, anvils, bellows, taps, rests, plates, &c.; screwing stock, mandril, miners' tools, &c.; a large quantity of useful wrought and cast iron.

CARPENTERS' SHOP.

miners' tools, &c.; a large quantity of useful wrought and cast iron.

CAPLENTERS' SHOP.

Carpenters' bench, saw pit frame, large grindstone, winch, lifting jack, and hand screws.

Borer steel, hoop iron, tallow, oil, rope, hemp, &c.; a good fan air machine; 2½ in. drop screw (new); miners' dial, &c.
20) lots of excellent timber, and the account house furniture.

The Auctioneer begs to call the particular attention of mine agents and others to the above. A better to thas never been offered for sale in the county.

Luncheon at Eleven o'clock; sale at Twelve o'clock.

New Rosewarne Mine is situate about a mile from Gwinear Road Station, three miles from Hayle, and three miles from Camborne.

DELABOLE SLATE QUARRY LANDS AND SILVER-LEAD MINES, TO BE LEASED, on easy terms. First class investments.

Apply to Mr. W. D. King, Solicitor, Camelford, Cornwall.

TO CONTRACTORS, MINING COMPANIES, AND OTHERS.

FOR SALE, the FOLLOWING MACHINERY, now lying at Marseilles, consisting of BURLEIGH ROCK DRILLS, with air compressors, air pipes, and engines, complete: ONE 20-horse power ROBETS MINING ENGINE and PUMP, complete, with duplicates: and ONE 20-horse power ROBETS MINING ENGINE, with duplicates. The whole in first-class condition.

Full particulars may be obtained of Messrs. Cutbill, Son, and De Lungo, 103, Cannon street, London, E.C.

SULPHATE OF BARYTES FOR SALE.—
Fine powdered, beautifully white; also in the Rock or Crude State, free from Lime and Metallic Oxide.

Samples on application to—
RUTHWAITE BARYTES MINING COMPANY,
Nov. 17, 1875.

WHITEHAVEN.

FOR SALE, a 18-horse power PORTABLE STEAM ENGINE, with link motion reversing gear, ready for delivery.

A 25-horse power PORTABLE.

An 18-horse power VERTICAL STEAM ENGINE, with link motion reversing gear, also gear to wind and pump.

A 9-ft. PAN MORTAR MILL, VERTICAL ENGINE, and BOILER.

Apply to—

Apply to-BARROWS AND STEWART, ENGINEERS, BANBURY.

ON SALE, TWO CORNISH BOILERS, 30 ft. by 7 ft. diameter Two flues through each. Safe at 60 lbs. pressure working.

Apply to Henry Parkinson, Foundry-street, Bolton.

SALE, ONE PAIR of 18 in. high-pressure HORIZONTAL ENGINES, for winding, fitted with slot link motion. First-class pair of Apply to HENRY PARKINSON, Foundry-street, Bolton.

N SALE, ONE PAIR of 15 in. HORIZONTAL WINDING ENGINES, with slot link motion. Will be sold cheap.

Apply to Henry Parkinson, Foundry-street, Bolton.

ON SALE, ONE 25-horse power double cylinder PORTABLE ENGINE, fitted with slot link motion for winding.
ONE 20 horse power double cylinder PORTABLE ENGINE.
Will be sold cheap, and are in first-class order.
Apply to HENRY PARKINSON, Foundry-street Boiler Works, Bolton, Lancashire

ON SALE, ONE 8-horse power PORTABLE ENGINE, fitted up with winding drum; slot link motion; made by Clayton and Shuttleworth. Price £1:0.

Apply to Henry Parkinson, Foundry street, Bolton.

ON SALE, ONE PAIR of 25 inch. coupled HORIZONTAL WINDING ENGINES, with drums and brake gear. Also ONE PAIR of 23 in ditto. Will be sold cheap.

Apply to H. PARKINSON, Foundry-street, Bolton.

ON SALE, ONE strong well-built condensing BEAM ENGINE, by a first class maker, equal to new; cylinder 38 in. bore, 5 ft. stroke. Can be seen standing, and will be sold cheap. ONE close-built self-contained condensing BEAM ENGINE, stands on independent bed on six columns; cylinder 25 in. bore, 4 ft. stroke. As good as new. Can be seen standing, and will be sold Apply to HENRY PARKINSON, Foundry-street, Bolton.

POILERS ON SALE.—FOUR GALLOWAY'S PATENT BOILERS, 30 ft. by 7 ft., safe to work at 70 lbs. on the square inch.
TWO BOILERS, 25 ft. by 7 ft., with two flues through.
TWO BOILERS, 26 ft. by 7 ft., two flues through.
ONE BOILER, 20 ft. by 7 ft., two flues through.
ONE BOILER, 18 ft. by 6 ft., one flue through.
Also several smaller sizes.
Apply to HENRY PARKINSON, Foundry-street, Folton.

ON SALE, ONE 16 horse power double cylinder PORTABLE ENGINE, for winding.
ONE 12 horse power PORTABLE ENGINE.
ONE 16 horse power PORTABLE ENGINE.
ONE 8 horse power PORTABLE ENGINE.
ONE 6 horse power PORTABLE ENGINE.
Equal to new, and will be sold cheap.
Apply to HENRY PARKINSON, Foundry-street, Bolton.

ON SALE, ONE PAIR of 25 in, horizontal WINDING ENGINES

ONE PAIR of 18 in. horizontal WINDING ENGINES,
ONE PAIR of 16 in. horizontal WINDING ENGINES,
ONE PAIR of 16 in. horizontal WINDING ENGINES,
ONE PAIR of 15 in. horizontal WINDING ENGINES,
ONE PAIR of 12 in. horizontal WINDING ENGINES,
ONE PAIR of 10 in. horizontal WINDING ENGINES,
ONE PAIR of 10 in. horizontal WINDING ENGINES,
The above engines are now ready for delivery, and fitted with winding drum nd brake gear to each pair of engines,
Apply to HENRY PARKINSON, Foundry street, Bolton.



BICKFORD'S PATENT
FOR CONVEYING
C H A R G E IN

Obtained the PRIZE MEDALS at the "ROYAL EXHIBITION" of 1851; at the "INTERNATIONAL EXHIBITION" of 1862 and 1874, in London; at the "IMPERIAL EXPOSITION," held in Paris, in 1855; at the "INTERNATIONAL EXHIBITION," in Dublin, 1865; at the "UNIVERSAL EXPOSITION," in Paris, 1867; at the "GREAT INDUSTRIAL EXHIBITION," at Altona, in 1869; TWO MEDALS at the "UNIVERSAL EXHIBITION," vienna, in 1873; and at the "EXPOSICION NACIONAL ARGENTINA," Cordova, South America, 1872.



PICKFORD, SMITH AND CO., of TUCKINGMILL, CORNWALL; ADELPHI BANK CHAMBERS, SOUTH JOHN-STREET, LIVER-POOL; and 85, GRACECHURCH-STREET, LONDON, E.C., MAN UFACTURERS AND ORIGINAL of TUCKINGMILL, CORNWALL; ADELPHI
BANK CHAMBERS, SOUTH JOHN-STREET, LIVERPOOL; and 85, GRACECHURCH-STREET, LONDON,
E.C., MAN UFACTURERS AND ORIGINAL
PATENTEES OF SAFETY-FUSE, having been in
formed that the name of their firm has been attached to
fuse not of their manufacture, beg to call the attention of
the trade and public to the following announcement:—
EVERY COIL of FUSE MANUFACTURED by them has TWO SEPARATE
THREADS PASSING THROUGH the COLUMN of GUNPOWDER, and BICK
FORD, SMITH, AND CO. CLAIM SUCH TWO SEPARATE THREADS as
THEIR TRADE MARK.

JOHN BEATSON, DERBY.



RON AND STEEL RAILS, of all sections, from 12 to 82 lbs. per yard, new, defective, or second hand. POINTS AND CROSSINGS, FISH PLATES, BOLTS, NUTS, CHAIRS,

AND SPIKES. LOCOMOTIVE ENGINES AND MACHINERY.
MALLEABLE AND PIG-IRON OF ALL KINDS.

BENNETTS' SAFETY FUSE WORKS, ROSKEAR, CAMBORNE, CORNWALL.

BLASTING FUSE FOR MINING AND ENGINEERING PURPOSES,

Suitable for wet or dry ground, and effective in Propical or Pol: Climates.

W. BENNETTS, having had many years experience as chief engineer with Messrs. Bickford, Smith, and Co., is now enabled to offer Fuse of every ariety of alsown manufacture, of best quality, and at moderate prices.

Price Lists and Sample Cards may be had on application at the above address. LONDON OFFICE -H. HUGHES, Esq., 95, GRACECHURCH STREET.

Second Edition; Seven'th Thousand; post free Threepence.

TOCK EXCHANGE SYNDICATES—
A GUIDE TO SMALL SPECULATORS.

Apply to— MESSES. JOHN ABBOTT AND CO.,

4 AND 5, PALMESTON BUILDINGS, LONDON, E.C.

Sold at all Messes, WILLING'S, Bookstalls.

Sold at all Messrs. WILLING'S Bookstalls.

Now ready, 12th edition, revised and enlarged, 11 plates, 12mo., 5s., bound. (postage 4d.)

THE OPERATIVE MECHANIC'S WORKSHOP COMPANION, and SCIENTIFIC GENTLEMAN'S PRACTICAL AS-ISTANT. Comprising great variety of the most useful Rules on Mechanical Science. With numerous

a great variety of the most useful Rules on Mechanical Science. With numerous Tables of Practical Data and Calculated Results.

By WILLIAM TEMPLETON.

"Has met with great success in the engineering workshop, as we can testify; and there are a great many men who, in a great measure, owe their rise in life to this little work."—Building News.

CROSBY LOCKWOOD and Co., 7, Stationers' Hall-court, London, E.C.

Just published, price 2s. 8d., post free.

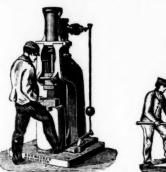
MINERS' ASSOCIATION OF CORNWALL AND DEVON.
REPORT AND PROCEEDINGS FOR THE YEAR 1s. 5.
The original papers contained in the volume include Phosphorite Mining, by Joseph Garland: The Diamond Rock Borer, by Major Beaumont: On a Deposit of Tin at Park of Mines, by C. Le Neve Foster, B.A., D.Sc., &c.; On the Pawton Iron Mine, by J. H. Collins, F. G.S.; On Meelannical Appliances for the Drainings of Mines, by Stephen Holman; Surface Drainings of Mining Districts, by C. Butlin; On the Elvan Courses of Cornwall, by W. H. Argall: Note on a Cross-Section for Cook's Kitchen Mine to Wheal Henrietta, by John Maynard; and Note on Three Sections of Lead Districts in Cornwall, showing the Productive and Unproductive Rocks, by T. Clark.
In addition to these there are the reports of District Meetings, Excursions, Officers, Prizemen, &c., forming a complete record of the progress of the Association London: Mining Journal Offices, 28, Fleet-street, London, E.C.

Prize Medals—Paris, 1867; Havre, 1868; Highland Society, 1870; Liverpool, 1871; Moscow, 1872; Vienna, 1873; Scientific Industry Society, 1875; Leeds, 1875; Paris, 1875; Manchester and Liverpool Society, 1876; U.S. Centennial, Philadelphia, 1876.

PATENTEES AND MAKERS OF DOUBLE AND SINGLE-ACTING

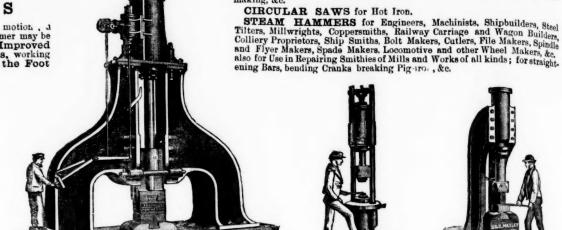
HAMMERS STEAM

Of all sizes, from ½ cwt. to 20 tons, with self-acting or hand motion. I either case giving a perfectly DEAD BLCW, while the former may be worked by and when desired. Large Hammers, with Improved Framing, in Cast or Wrought Iron. Small Hammers, working up to 500 blows per minute, in some cases being worked by the Foot of the Smith, and not requiring any separate Driver.



Smal Hammer with Foot Motion.







SPECIAL STEAM STAMPS, for Forging, Stamping, Punching, Bolt-

From 60 to 100 Steam Hammers and Steam Stamps may usually be seen in construction at the Works.



General Smithy Hammer.

Ro

2, C

BO

WORKI

Addi

For Tunnels, Mines, Quarries,

HARBOUR WORKS, CUTTING BLOCKS OF GRANITE, &c.

STANDS POSITIVELY UNRIVALLED FOR

1.-EFFICIENCY.

2.-ECONOMY.

3.-SIMPLICITY.

4.-DURABILITY.

5.-ADJUSTABILITY.

6.-PORTABILITY.

7.-COMPACTNESS.

-STRENGTH.

Intending purchasers can satisfy themselves by personally inspecting "CHAMPION" Rock Borers at work in London, or where they are in actual operation, that the advantages claimed are not over-

AIR COMPRESSING MACHINERY

of the SIMPLEST and BEST CONSTRUCTION.

COMBINED AIR-COMPRESSORS

AND

WATER-PRESSURE ENGINES

Giving most excellent results.

ULLATHORNE 3 CO..

Mechanical and Consulting Engineers,

63, QUEEN VICTORIA STREET, LONDON, E.C.

GUIBAL VENTILATORS

FOR COLLIERIES, MINES, &c.

P. HAGGIE AND CO.,

MANUFACTURERS, GATESHEAD-ON-TYNE.

Sizes in hand and delivered, comprising all the RECENT IMPROVEMENTS in the Venitators, and highly finished VARIABLE EXPANSIVE ENGINES, 15, 20, 21, 24, 30, 36, 40 feet, and upwards, in diameter.

DETAILED ESTIMATES ON APPLICATION.

GENERAL COLLIERY ENGINEERING, HAULING AND WINDING ENGINES, SAW MILL MACHINERY,

MR. D. P. MORISON, M. AND C.E., No. 21, COLLINGWOOD STREET, NEWCASTLE-ON-TYNE; and ST. STEPHEN'S CHAMBERS, WESTMINSTER, LONDON.

AND EDWIN WRIGHT. JOHN PATENTERS.

(ESTABLISHED 1770.) MANUFACTURERS OF EVERY DESCRIPTION OF

PATENT FLAT AND ROUND WIRE ROPES

IMPROVED

from the very best quality of charcoal iron and steel wire. PATENT FLAT AND ROUND HEMP ROPES,

HIPS' RIGGING, SIGNAL AND FENCING STRAND, LIGHTNING CON DUCTORS, STEAM PLOUGH ROPES (made from Wedster and Horsfall' patent steel wire), HEMP, PLAX, ENGINE YARN, COTTON WAST. TARPAULING, OIL SHEETS BRATTICE CLOTHS, &c.

UNIVERSE WORKS, MILLWALL, POPLAR, LONDON UNIVERSE WORKS, GARRISON STREET, BIRMINGHAM CITY OFFICE, No. 5, LEADENHALL STREET, LONDON, E.

A HOUILLE (Weekly Journal) represents the IRON and COALTRADES of FRANCE. Advertisements referring thereto, and subscriptions, 20s. per annum, post paid, received by the London Agents, EDWARF CASPER and CO., 40, Finsbury Circus, E.C.

"Champion" Rock Borer, ORMEROD, GRIERSON, AND CO.,

ST. GEORGE'S IRONWORKS, MANCHESTER, Engineers, Millwrights, & Boiler Makers,

Stationary Steam Engines and Boilers for all purposes, Mill Gearing, Sugar Machinery, Cranes, Turn-Tables, and Railway Fixed Plant of all descriptions; also, the Diamond Rock Boring Company's Plant –viz.: Compressed Air and Air-Compressing Engines, Prospecting Machines, Tunnelling Machines, and Shaft Sinking Machines.



Have the Largest Assortment in the Trade of

PATTERNS.

WITH MACHINE-CUT TEETH, OF

SPUR WHEELS, BEVEL WHEELS, MITRE WHEELS,

WHEELS. DRIVING PULLIES & DRUMS,

CAN BE SUPPLIED BORED AND TURNED IF REQUIRED.

CATALOGUES ON APPLICATION.

LONDON OFFICES:

No. 5, WESTMINSTER CHAMBERS, VICTORIA STREET,

WESTMINSTER, S.W.

MANCHESTER \mathbf{WORK}

NEAR VICTORIA STATION, MANCHESTER.

(ESTABLISHED 1790).

AND CO., JOHN STANIAR Manufacturers by STEAM POWER of all kinds of Wire Web, EXTRA TREBLE STRONG for

LEAD AND COPPER MINES.

Jigger Bottoms and Cylinder Covers woven ANY WIDTH, in Iron, Steel, Brass, or Copper. EXTRA STRONG PERFORATED ZINC AND COPPER RIDDLES AND SIEVES.

Shipping Orders Executed with the Greatest Dispatch.

TO COLLIERY PROPRIETORS.

SCREEN STEEL "REGISTERED" SECTIONS OF IMPROVED



Porter's Governor for Stationary Engines. Also Governors on the same principle adapted for Marine Engines.





No. 3.

THE DOTTED LINES SHOW THE ORDINARY SECTION, AND THE DARK GROUND THE IMPROVED SECTIONS.—
A saving of at least 30 per cent. is effected by the great reduction in weight of material.—For price and particulars apply to— JOEL EATON WALKER. STEEL MERCHANT, SHEFFIELD.

NOBEL'S DYNAMI

Is the MOST ECONOMICAL and POWERFUL EXPLOSIVE for every kind of MINING and QUARRYING OPERATIONS; for blasting in hard or soft, wet or dry ROCKS; for clearing land of TREE ROOTS and BOULDER STONES; for rending massive BLOCKS of METAL; for SUBAQUEOUS and TORPEDO purposes; and for recovering or clearing away of WRECKS, &c.

ITS SAFETY is evidenced by the total ABSENCE OF ACCIDENTS in transit and storage; it is insensible to heavy shocks,

its GIANT POWER being only fully developed when fired with a powerful percussion detonator, and hence its great safety.

As a SUBSTITUTE FOR GUNPOWDER its advantages are the GREAT SAVING OF LABOUR, rapidity and INCREASE OF WORK done, FEWER and smaller BORE-HOLES required, greater depth blasted, safety in use NO DANGER FROM TAMPING, absence of smoke, unaffected by damp, &c.

For information, apply to the-

BRITISH DYNAMITE COMPANY (LIMITED), GLASGOW;

London Export Office, 85, GRACECHURCH STREET, LONDON, E.C.

LITHOFRACTEU

THE BEST EXPLOSIVE KNOWN FOR EVERY KIND OF QUARRYING, MINING, TUNNELLING, AND SUBAQUEOUS

UNRIVALLED FOR STRENGTH, SAFETY, AND FREEDOM FROM GASES.

EXPORT ORDERS DELIVERED FREE ON BOARD IN THE THAMES. PAMPHLETS ON APPLICATION. Responsible Agents for the Country Districts can apply to-

KREBS BROTHERS AND Co., Sole Manufacturers and Patentees, 22. BASINGHALL STREET, LONDON, E.C.

Is perfectly uninflammable and insensible to the heaviest blows. It cannot be fired in a bore-hole, except by using a special primer and detonator. Its strength is superior, weight for weight, to every known explosive, and it gives off no injurious taste or fumes.

Sold in packets ready for use at 1s. 6d. per lb. PRIMERS AND DETONATORS SOLD SEPARATELY.

For further information apply to-

.,

DS.

MS,

RS,

ECTIONS.

THE PATENT SAFETY GUN COTTON COMPANY, LIMITED, STOWMARKET,

SOLE MANUFACTURERS OF ABEL'S GUN COTTON.

LONDON EXPORT OFFICE, 52, QUEEN VICTORIA STREET.

ROCKDARLINGTON THE BORER.

No VALVE—BLOW obtained by the movement of the PISTON.
IN USE IN FRANCE, GERMANY, SPAIN, AND ELSEWHERE.

Rock Borers, Air Compressors, and Electric Blasting Apparatus. Sole Agents and Manufacturers for France.—The Blanzy Mining Company,

WHERE BORERS MAY BE SEEN IN OPERATION.

For letter of introduction, particulars, &c.. apply to-

JOHN DARLINGTON,

2, COLEMAN STREET BUILDINGS, MOORGATE STREET, LONDON.

THE TUCKINGMILL FOUNDRY COMPANY

(TUCKINGMILL FOUNDRY AND ROSEWORTHY HAMMER MILLS), CAMBORNE,

CORNWALL, Engineers, Iron and Brass Founders, &c.,

MAKERS OF EVERY DESCRIPTION OF

MINING MACHINERY, SHOVELS, GEARWORK, PUMPING, WINDING, AND STAMPING ENGINES.

STONE BREAKERS. SOLE MAKERS OF

BORLASE'S PATENT ORE-DRESSING MACHINES AND PULVERISERS.

ESTIMATES GIVEN UPON INDENTS AND SPECIFICATIONS. ILLUSTRATED CATALOGUES POST FREE ON APPLICATION.

LONDON OFFICE: 85, GRACECHURCH STREET, E.C.

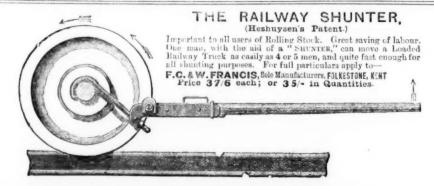
BORING AND SINKING.

WILLIAM COULSON AND SON

Are prepared to UNDERTAKE BORINGS for MINERAL EXPLORATION, either from the SURFACE or UNDERGROUND WORKINGS; BORINGS for WATER SUPPLIES or TUNNEL SOUNDINGS, &c., at fixed prices, according to the size of bore-hole required; also to EXAMINE and REPORT upon the BEST MEANS to SECURE DEFECTIVE TUBBING.

Plans and specifications prepared for Shaft Tubbing, Wedging Cribs, Pumping, and General Sinking Arrangements.

Iress: W. COULSON AND SON, SHAMROCK HOUSE, DURHAM.



"Kainotomon" Rock Drill

BRITISH, PRUSSIAN, & SAXON GOVERNMENTS.



SUPERIOR

AIR-COMPRESSORS, COAL-CUTTERS,

PUMPS.

MINING MACHINERY.

Secondhand ROCK DRILLS, of BRYDON AND DAVIDSON'S make £25 each, new £32.

T. A. WARRINGTON, 30, King-street, Cheapside, LONDON, E.C.

PHOSPHOR BRONZE



\$139, CANNON STREET, E.C. LONDON.

COMPANY (LIMITED).

£120 per ton.

WIRE ROPES, TUBES OF ALL DESCRIPTIONS, &c.

MAPS OF THE MINES, AND OF UTAH TERRITORY.

ROISE TH'S NEW AND REVISED MAP FOR 1875.—

Bize 40 by 55 inches, seale 8 miles to the inch. Handsomely engraved, coloured in counties, showing the Towns, Settlements, Rivers, Lakes, Railroads, Mining Districts, &c., throughout the Territory, and all the Government Surveys to date. Mounted on cloth. £2; half-mounted, £1 12s.; pocket form, £1.

Also, GENERAL MINING MAP OF UTAH, showing twenty-eight of the principal Mining Districts adjacent to Salt Lake City, and location of the most prominent mines. Price, pocket form, 6s.

Also, NEW MAP OF LITTLE AND BIG COTTONWOOD MINING DISTRICTS, showing the location of over four Hundred Mines and Tunnel Sites, together with the Mines Surveyed for United States Patent. Price, sheets, 6s.; pocket form, 8s.

For sale, and supplied by—

TRUBNER and Co., 57 and 59, Ludgate Hill, London; or

B. A. M. Froiseth, Salt Lake City, Utah, U.S.

Now ready, price 3s., by post 3s. 3d., Sixth Edition; Twentieth Thousand Copie much improved, and enlarged to nearly 300 pages.

HOPTON'S CONVERSATIONS ON MINES, between Father and Bon. The additions to the work are near 80 pages of useful information, principally questions and ansverse, with a view to assist applicants intending to pass an examination as mine managers, together with tables, rules of measurement, and other information on the moving and propelling power of ventilation a subject which has caused so much controversy.

The following few testimonials, out of hundreds in Mr. Hopton's possession speak to the value of the work:—

"The book cannot fail to be well received by all connected with collieries."—

Mining Journal.

Mining Journal. "Its contents are really valuable to the miners of this country." - Miners Con "Such a work, well understood by miners, would do more to prevent collier coldens than an army of inspectors."—Colliery Guardian.

London: MINING JOURNAL Office, 26, Fleet-street; and to be had of all book



MAY be used with confidence by persons suffering from headache, indigestion, pain under the shoulter, bilious allments, scorbutic complaints, affections of the nervous system, lowness of spirits, want of sleep, &c. Sold by all chemists.

Just published, Free Edition.

UIDE TO HEALTH; or, ADVICE AND INSTRUCTIONS FOR THE CURE OF NERVOUS DEBILITY.—A New Medical Work on the Treatment of Local Debility, Consumption, Loss of Memory, Physical Depression, Indigestion, and all diseases resulting from loss of nerve power. Illustrated with cases and testimonials. Sont free for two stamps.—Dr. 8 MITH will, for the terrest of country patients, on receiving a description of their case, send a confidential letter of advice.

Address, Dr. H. 8 MITH, 8, Burkon-crescent London, W.C.

THE MINING SHARE LIST.	NON-DIVIDEND MINES. Stares. Mines. Paid. Last wk. Clos Pr.		
BRITISH DIVIDEND MINES. Shares.	18000 Ambrose Lake, t, c, Liskeard	1 0 0 135 34 34 5 0 0 2 0 0 256234 236 1 18 6	
3000 Bampfylde, c, i, mn., Devon* 1 0 0 156 136 156 0 2 0 0 2 0 June 1873	12000 Assheton, l, Carnarvonshire* 50000 Ballycummisk,* c, Schull	8 0 0 1 1 1%	
545 Cargoll, s.f. Newlyne 2 10 0 1 7 5 0 2 0Aug. 1875 1000 Cashwell, i, Cumberland* 2 10 0 1 7 5 0 2 0Aug. 1875 1000 Cashwell, i, Cumberland* 35 0 0 50 40 42½ 308 0 0 1 0 0Feb. 1874	15000 Elaen United, * s-!, Cardigan	1 0 0 1½ ½ 1½ 5 5 0 — 1 0 0 1½ 1 1½	
10240 Dayson Gt Console of Taristockits 1 0 0 5 434 452 116 10 0 0 12 0 May 1872	30000 Bodidris, * l, bl, Denbighshire 2000 Bowden Hill, * ma 6000 Bradwell Moss Rake 20000 Brynambor, ', Cardigan* 493 Bwadrain, * l, Cardigan*	1 0 0 116 36 116	
6500 Drake Walls, t, c, Calstock	30000 Caldbeck Fells, I, Cumberland* 5584 Carn Camborne, c. t. Camborne	3 0 0 3 6 K 14 14	
10000 East Balleswisden, t, Sanoreed 1 0 0	15 100 Cathedral, t, c, Gwennap*. 20090 Central Foxdale, I, of Man*(2l. sh.) 10000 Central Van.* l, bl, Llanidloes 128 Clementina, l, Llanrwst	0 0 0 45 35 45	
2800 Foxdale, i, Isle of Man*1 25 0 0	7500 Combellack, * t, Wendron	2 0 0 2½ . 2 2½ 1 0 0 — 1 0 0 — 4 0 0 —	
25000 Great West Van, I, Cardigan* 2 0 0 ½ 36 ½ 0 2 0 0 1 0Aug. 1874 5908 Great Wheal Vor. I. C. Helston 15 41 12 8 34 15 19 6 0 2 6Jure 1872	10000 Denbighshire Consolidated, i*	0 0 3 9 3	
2000 Green Hurth, I, Durham 2 0 0 5½ 5½ 5½ 5½ 5½ 5½ 5½ 5½ 5½ 5½ 5½ 5½ 5½ 5½	512 East Basset, c. Redrutht!	7 7 6 15 10 15	
18000 Hingston Down, c, Calstock*† (£1sh.) 2 5 0 % 4 4 0 0 1 0 Nov. 1875 25000 Killalog st. Tipperary 1 0 0 — 0 3 11½ 0 0 6 Mar. 1873	5000 East Black Craig, * l., Scotland	8 6 2 2	
400 Lisburne, 1, Cardigaushire 18 18 0 70 65 70 577 10 0 1 0 9.85pt, 1876 14000 Llanidloes, 1, Montgomery 8 0 0 3 1 1½ 0 4 6.0 1 16Nov. 1876 0120 Lovel, 1, Wendron 0 10 0 0 17 6.0 1 6Jan. 1874 9000 Marke Valley, 2, Linkinhorne 5 0 8 1½ 1½ 7 15 0.0 2 0Jan. 1876 11000 Melindur Valley, 4, Cardigan* 3 0 0 1½ 1 1½ 0 7 2 033 7Jan. 1876	6000 East Tywarnhaile, c, St. Agnes	0 0 814 814	
5000 Minera Mining Co., I, Wrexham*. 5 0 0 25 22 25 66 8 2 0 7 0 0ct. 1876 20000 Mining Co. of Ireland, ci, c, i* 7 0 0 5½ 5½ 5½ 5½ 23 11 6 0 3 6Jan. 1876 512 North Busy, c, Chacewater	5000 Frank Mills, I, Christow 5000 Frank Mills, I, Christow 5000 Frank Mills, I, Mont. [4000 sh.ty.pl.] I 5000 Gawton, c, Taylstock 1,000 Glan Clwyd, I, Gwyddelwern	6 0	
2000 North Levant, f, c, 8t. Just§	2000 Glenroy, * s.l, Isle of Man	0 0 2½ 1½ 2 0 0 2⅓2½ 2½ 10 0	
45793 Penstruthal, t, c, Gwennap	1 10000 Gold, g. Merionethshire	0 0 11/4 11/4 11/4 11/4 11/4 11/4 11/4	
1120 Providence, t, Lelanti § 18 6 7 2½ 104 12 6 0 10 0 8ept. 1872 1200 Roman Gravels, t, Salop* 10 0 14½ 13½ 14½ 6 13 0 0 8 6 Oct. 1376 512 South Carada & St. Class 15 15 125 731 0 0 2 0 0 Oct. 1376	9500 Great Pant-y-Pydew, l, Holywell 2 6000 Gt. Wheal Eleanor, t, North Bovey. 1	0 0 3 2 3	
6123 South Condurrow, t,c, Camborne I 6 5 6 734. 7 7 14 2 2 0 0 3 6 Oct. 1876 10:00 So. Pr. Patrick, *s-i. (8000 sh. issued) 1 0 0 0 7 0 0 1 0 Oct. 1875 12:00 Tankerville, ', Salop* 6 0 0 956 8½ 9 4 17 0 0 5 0 Nov. 1876 6:00 Tineroft, c, t, Pool, Illogan 1 9 0 0 22½ xd. 20 23 49 18 6 0 5 0 Nov. 1876	1000 Harchope Gill, '' (, Durham (£1 sh.) (64)0 Harwood, '' (, Durham	15 0 1 34 1 15 0 1 34 1 0 0 13 0 55 36 56	
10000 Van / Llanddoes* 4 8 - 38 30 37 17 1 0 0 18 0 Nept 1876	25000 Kingston Con., s.l., Stoke C.Imsland. 1 1900 Ladywell, * l., Salop 2 12 00 Ditto, 10 per cent. prel., 1l. each 2 2000 Leadhills, * l., Lanarkshire	0.0 14 111/	
2015 West Wheal Frances, f, Illogan 27 13 9 6 5/2 6 5 12 6 0 5 0 0 ct. 18/2 12000 West Wye Valley, f, Montgomery 3 0 0 3/4 3/4 3/4 0 6 0 0 3 0 Nov. 1876	2500 Levant, c, t, St. Just. 64 Llandilo, s-l, bl, Flintshire 50	0 0	
2045 Wheat Jane, t, Kea	25:00 Llanrhaisdr, l, Montgomery* 2 30:00 Llanrwst,* l, Carnarvon 2 15:00 Llwyn Teify,* s l, Cardigan	0 0	
2 0 0 4½ 4½ 0 3 0 0 2 0 Dec. 1875 2 5000 Wicklow c, sul, i, Wicklow	6000 Mediyn Moor, t, Wendron	0 0	
FOREIGN DIVIDEND MINES. \$5500 Alamillos, I, Spain*7	12000 Mount's Bay, c, Marazion 4000 Nanty, l, Montgomeryshire* 125000 Nanty, Routy-Ronen, s-l, Cardigan* 15000 Nascent Copper*	0 0	
15000 Birthe Mountain, *c, (6240 part pd.) 5 0 0 0 10 0 Nov. 1872 15000 Birthe Mountain, *c, (6240 part pd.) 5 0 0 0 10 0 Nov. 1872 15000 Birthe Mountain, *c, (6240 part pd.) 5 0 0	12000 Neptune, c, Perrantthnoe 10000 New Beldon, l, Northumberland 3000 New Chiverton, l, Perranzabuloe 2 0000 New Consols, s, a, Stoke Climsland.	0 0 61/261/4 61/4	
40000 Cedar Creek, g, California* 5 0 0 34 32 34 0 5 0 0 2 8 June 1873 80000 Central American Association*† 0 18 6 0 6 0 0 1 0 July 1886 0 6 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 1 0	8000 New Dolcoath, t, c, Camborne* 3 20000 New East Foxdale, s-l, Isle of Man. 0 14000 New Fowey Consols, t, 8t. Blazey* 3 1492 New Hendra, t, Breage	15 0 2 11/4 2	
1000 Copiapo, c, Chili* (£.0 shares) 16 15 C 7 8 5 0 2 6Jan. 1875	10000 New North Pool, c, Illogan 3 6400 New Pembroke t, c, Par Station 5	0 0 3 2 3 10 6 5/8 1/2 5/8	
25800 Eberhardt and Aurora, 5, Nevada* 10 00 \$\frac{32}{2} \$\frac{8}{2} \$\frac{1}{2} \$\frac{1}{2} .	3200 New South Merllyn, I, Flints 2 4 00 North Cornwall, I, Cornwall 5 17000 North Laxey, I sle of Man 2 20000 North Prince Patrick, I, Holywell 1	10 0 0 0 5¼ 5 5¼ 0 0 3¼ ½ 5% 0 0 1¼ . 1 1¼	
Socoo Gold Kun had	4 09 North Cornwall , , Cornwall , , 20 17000 North Laxey, 'Isle of Man		
20000 Last Chance, s, Utah 500 500 4 4 4 014 0 0 2 0 July 1673	2500 Old Tineroft, c, f, Lelant	0 0 4 3 4	
\$000 London and California, g+1	12 400 Pandora. * 1, Carnaryon	0 0 2½ 2 2½ 0 0 ⅓ ½ ⅓ 0 0 3 2¼ 3	
1,000 Port Phillip, g, Clunes*1 20 0 0 18 10 18 23 1 1 1 11 1 Nov. 1876 1 10 0	8000 Pennant, l, bar, North Wales* 5 12000 Pennantey, l, Bhropshire* 2 12000 Plynlimmon, l, Llanidloes* 2 648 Polrose, t, Breage 21	00 0 81/0	
1000 Senttish Australian Misia 0 10 0 278 0 20 0 1 3 Oct. 1876	2000 Prideaux Wood, t, Llanivery	0 0 2 1% 2	
60000 South Aurora, s, Nevada" 5 00 34 34 0 14 2 0 2 0Nov. 1873	6000 Relistian Consols, c, Gwinear 0 15000 Rookhope, l, Durham* 1	10 0 34 56 34 10 0 74 34 75	
18000 Western Andes, s, N. w Granada 5 0 0 214 10, 0 8 3. July 1876 21000 W. Prussian (5500 prof. sh, 9l. paid) 10 0 0 11½ 11 11½ 0 16 0 0 8 0 Sept. 1876	5000 Rosewalne United, t, t, Gwinear 1 5000 Rosewaln.s-l, Swymbridge	0 0 34 34 34 0 0 534 535 537	
Shares. Paid. Last Pr. Cios. Pr. Last Cail. 2000 Anglo-Australian, g, Victoria* 2 10 0	5:00 South Carn Brea, c, t, Illogan 3	50. 14. 34 14	
10000 Australian Central, g* (also 6000 deferred shares)	1000 South Darren, i, Cardigan* 1 512 South Dolcoath, c, t, Redruth 1 12000 South Lisburne, i, bi, Cardigan* 0 18000 South Roman Gravels, t* 1 6000 South Roskear, t, t, Camborne 6	10 0 34 1	
50000 Braganza, g, Brazil*†	6000 South Tolcarne, t, c, Camborne 1 12000 South Van, 1, Montgomeryshire 1	9 0 34 35 34	
3000 Beliavista, **, Feru** (210 shares) 10 0 0	1000 St. Lawrence, Amal. 1, Flintshire* 2	0 0	
40000 Holeombe Valley a * Califernia	12000 St. Harmon, 4, Montgom 3	0 0 314 3 314	
10000 I. X. L., g, s, California	1000 St. Farrick, Alakhi, Holywell 1 2 2 2 2 2 2 2 2 2	0 0	
75000 Maisbar, g, Colombia 67185 issued) 1 0 0 7/ 3/ 1/ Eully pd. 1 0 0 7/ 3/ 1/ Eully pd. 1 0 0 7/ 3/ 1/ Eully pd. 1 0 0 7/ 1/ 1/ Eully pd. 1 0 0 7/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/	1 1000 1 1 1000 1 1 1000 1 1		
Atta New Benefit / Comment of the Pully pd	547 Trelyon Consols 18 12000 Trethellan, s-l, Crantock* 2 2561 Trumpet Consols, t, Helston 11 25000 Unity Wood, t, c, Kenwyn 4 20000 Van Consols, l, Ilanidloss* 2	0 0 56	
20000 New Zealand Kapanga, g, Coromandel* 5 0 0 5 4½ 5Fully pd. 2000 Oregon, g, Oregon, U.S. (preference shares) 4 0 0 4½ 4 4½ Sept. 1875 8000 Panulcillo, c, Chili*†(£80000 debentures) 4 0 0 2½ 2½ Fully pd.	20000 Van Consols, l, Lianidloes* 2 12000 West Assheton, l, Carnarvon 1 6000 West Basset, c, Illogan†! 5 20000 West Bryn Celyn, l, Flintshire 1	68 50 550	
80000 Rica, g, Colombia* (40000 isaued) 3 0 0 34 14 Fully pd. 22,121,000 Rio Tinto,* c, Huelva, Spain Stock 59 67 59 Fully pd. 1.0000 Rossa Grande, g, Brazil**; (£1 shares) 0 19 0 1/2 1/2 1/2 July pd. 30000 Russia Copper, Orenburg and Ufa**; 0 19 0 1/2 1/2 July 1872	12500 West Combmartin, s-l, North Devon 1 3000 W. Craven Moor, l, Pateley Bridge", 10 5000 West Godolphin, t, c, Breage	0 0 13½1½ 1½ 0 0 13½12½13½ 16 0 3 2½ 3	
25000 San Pedro, c, Chili* 10 0 0 2½ 2½ Fully pd. 10000 Silver Plume, s, Colorado* 2 0 0 1 ½ 1 Fully pd. 2500 San Wafift, s, Colorado* 1 0 0 Fully pd. 2500 San Wafift, s, Colorado* 2 0 0 Fully pd. 2500 San Wafift, s, Colorado* 2 0 0 Fully pd. 2500 San Wafift, s, Colorado* 2 0 0 Fully pd. 2500 San Wafift, s, Colorado* 2 0 0 Fully pd. 2500 San Wafift, s, Colorado* 2 0 0 Fully pd. 2500 San Wafift, s, Colorado* 2 0 0 Fully pd. 2500 San Wafift, s, Colorado* 2500	15000 West Great Work, t, Breage*	0 0 2 1 1½ 0 0 ¼ ½ ¾ 0 0 – 14 0 ¾ ¼ ¾	
20000 Thornhill Reef, g, Australia*	3000 West Mary Ann, I, Menheniot 0 50000 West Milwr, s-I, Flint 1 12000 West Pant-y-Go, s-I, Flint* 1 4001 West Pathey Bridge I. Yorkshire 5	3 6 X 1/4 X 0 0 — 0 0 —	
75000 Yorke Peninsula, c. South Australia 1000 .	10000 West Polibrech, t, St. Agnes	12 0 3 21/4 8	
FOREIGN AND MISCELLANEOUS STOCKS, BONDS, LOANS, AND TRUSTS.	3000 West Wheal Seton, c, Cambornet 40	10 0 1¼1½ 1¼ 0 0 32½ . 30 32½	
Argentine, 1868, 6 per cent. 70 72 Foreign and Col. Gov. Trust, 6 p. cent. 72 77 Brazilian, 1865, 6 per cent. 93 95 Do., 6 per cent. 3d issue 45 55 Do., 6 per cent. 3d issue 52 60	6000 Wheal Argus, t, Sancreed	10 0 — 18 6 — 0 0 2 1½ 2	
Chilian, 1966, 7 per cent. 102 108 Do., 1872, 4th issue 50 57 Do., 1873, 5th issue 48 53 Egyptian, 1862, 7 per cent. 51 53 Permian 1870, 6 per cent. 151 63	5179 Wheal Grenville, c, Camborne* 1 12000 Wh. Mary Hutchings, *t, Plympton 1	10 0 18 6 1½1½ 1½ 14 0	
Do., 1868, 7 per cent. 59 54 54 55, 7 per cent. 15% 15% 59 54 50., 7 per cent. 7 M.L. 60 65 Russian, 6½ per cent. L. Mort. 69 74 50., 7 per cent. guar. 65 70 Sensish. Quicksilver Mort. 5 p. cent. 91 93 Do., 7 per cent. K.M.L. 42 44 United States Mort., 6 per cent. 30 93 95	3000 Wheal Peevor, t, Redruth 6 10000 Wheal Russell, c, Tavistock 1 4008 Wheal Uny. t, c, Redruth 18 2480 White Cliff, " /, Llanrwst 4	10 0 4 8½ 4 0 0 34 ½ 36	

	IPON AND COAL CONT
	IRON AND COAL COMPANIES, Sharts. Company. Paid. 2100 Abbot, John, and Co. [L.]
	5 Alltami Colliery Co. [L.] 14 0 0 15 141 pm
	10 Baguait, John, and Bons [L.] 10 0 0 61/
	60 Bibao Iron Ore Co. [L.] 10 0 0 3 6 di 60 Bibao Iron Ore Co. [L.] 50 0 0 0 2 4 dis 10 Bibao & Crump Meadow Coll. Co.[L.] 10 0 0 2 1 di 4 Blage Cumpable Coal Co. [L.] 10 0 0
	60 Blaenavon Iron and Steel Co. [L.] 50 0 0
	50 Bowling Iron Co. [L.]
	50 Brown, Bailey, and Dixon [L.] 40 0 0 23 23 100 Brown, John, and Co. [L.] 70 0 0 ½ 1½ nm.
	100 Cammell and Co. [L.]
	10 Cardigan Steel and Wire Co. [L.] 8 10 0
-	50 Chatterless Inon Co CT 1
	10 Chillington Iron Co. [L.] 10 0 0 6½ 25 di 1 Clee Hill Colliery Co. [L.] 10 0 0 6½ 55 di 1 Clee Hill Colliery Co. [L.] 1 0 0 6½ 5½ di 10 Consett Iron Co. [L.] 7 10 0 10½ 11 10 0 10½ 11 10 0 10½ 10 10 0 10½ 11 10 0 10½ 11 10 0 10½ 11 10 0 10½ 11 10 0 10½ 12 12 12 12 12 12 12 1
	20 Darlington Iron Co. [L.] 1 00 91/
	5 Diamond Fuel Co. [L.] 4 10 0 34 94 pm
	82 Ebbw Vale Co. [L.]
1	2 Gwyngwillim Colliery Co. [L.]
	50 Knowles, Andrew, and Sons [L.] 17 0 0 4 19 Llay Hall Coal, Iron, & Firebrick [L.] 10 0 0 10 10 10 10 10 10 10 10 10 10 10 10 10
	5 Littledean Woodside Coll. Co. [L.] 5 0 0 10 10 2 10 2 10 10 2 10 10 10 10 10 10 10 10 10 10 10 10 10
	4 Moreov Steel and Iron Co [L.]
I	10 Midland Iron Co. [L.] 5 0 0 2 4 pm
	100 Nant-y-Glo and Blains (8 p.c. pref.) 100 0 0 2
	1 Nerbudda Coal and Iron
	35 Palmer's Shipbuilding and Iron [L.] 25 0 0 18 16 d
-	20 Patent Nut and Bolt Co. [L.] 14 0 0 7 7% pn 20 Patent Shaft and Axletree [L.] 10 0 0
	20 Pelsall Coal and Iron J
	100 Sandwell Park Colliery Co. [L.] 100 0 0 60 Ditto New 10 0 0
	50 Shorts Iron Co. [1.]
	20 Skerne Ironworks [1.]
	90 South Wales Coal Co. [L.]
	10 Swansea Valley Steam Coll. Co. [L.]. 6 0 0
	100 Thames Iron Company
	10 Vancouver Coal [L.] 6 p. c. deb. 100 0 u 14 24 pm.
	50 Welsh Ironworks Co. [L.]
	25 W. Cilinetand I. Steel L. J. 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	100 Wigan Coal and Iron Co. [L] 75 0 0
	WAGON COMPANIES,
	16 Birmingham Wagon Co. fL.1 10 0 0 213/ 221/
	20 British Wagon Co. [L.] 10 0 0 3 3 3 pm 20 Sheffield Wagon Co. [L.] 15 0 0 4 4 pm 10 Yorkshire Wagon Co. [L.] 10 0 0 4 5 pm
	TELEGRAPH COMPANIES,
	"8t." Anglo-American
	20 Direct United States Cab'e
	10 East. Exten., Australia and China 10 0 0 75 75 75 10 Great Northern 10 0 0 75 8 8 25 10d. European 25 0 0 16 18
	10 Mediterranean Extension
	10 West India and Panama
1	\$1000 Western Union, 7 per cent. Mort. Bonds \$1000 106 108
	MISCELLANEOUS, Stk. Atlantic and Great Western Leased
ľ	Lines, Rental Trust
	10 Avonside Engine [L.]
	T. C. A. C. North Con West 100 0 0 70 79
	Stk. Cent. of New Jersey Con. Mort. 6 p.c. 100 0 0 103 104/ 28 Clty of London Real Property [L.] 12 0 0 1/2 104/ 28 Copper Miners of Eng. (7 p. c. p. ef.) 25 0 0 5 5 Credit Foncier of England [L.] 5 0 0 11/2 11/2 11/2 11/2 11/2 11/2 11/2 1
	15 Foster, Porter, and Co. [L.]
	10 Huntington Copper and State Co 50 0 0 22 61
	8tk. Ditto, 2nd Mort., 7 per cent. 100 0 0 55 60 8tk. Illinois Cent. Sinking Fund, 5 p. cent. 100 0 0 93 95 8tk. Ditto, 6 per cent. 100 0 0 104 106
	7½ Imperial Credit (L.] 7 10 0 7½ 7½ — Ditto, Surplus Certificate — 4¾ 5½ 5½
	25 National Discount [L.] 5 0 0 9 9%
	8 Patent Gunnowder Company 5 0 0 416
	50 Peninsular and Oriental Steam 50 0 0 35 37
	Sek Scottish Aust. Investment Company, 100 0 0165 175
	10 Silber Light (ord. sh.)
	12 Telegraph Construc. & Mainte. [L.] 12 0 0 21/2 25/2
	10 Tharsis Sulphur and Copper Co 10 0 0 23 23 8tk. Union Pacific Land Grant, 1st Mort. 100 0 0 93 95 8tk. Union Pacific Railway, 1st Mort 100 0 0 102
	δ, blende; εl, coal; ε, copper; g, gold; l, lead; s, sliver; sl, slate; s-l, sliver-lead; l, tin; g, zinc.

b, blende; cl, coal; c, copper; g, gold; l, lead; s, sliver; sl, sister; el, sliver: lead; f, tin; z, zinc.
 Limited Liability Companies; † quoted on the Stock Exchange.
 I have paid dividends.

London: Printed by RICHARD MIDDLETON, and published by HENRY ENGLISH (the proprietors), at their office, 96, FLER STREET, E.O., where all communications are requested to be addressed.—December 9, 1876